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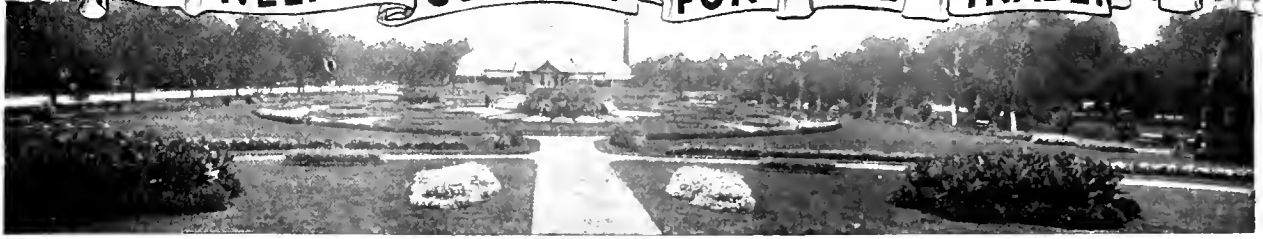
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MASSACHUSETTS

AMHERST MASS.

# THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE.



*America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."*

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## THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS AND  
ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C.; president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August, 1898.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Chicago, February 17 and 18, 1898. ALBERT M. HERR, Lancaster Pa., Secretary.

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POT DAHLIA

### Propagation of Dahlias.

Dahlias are propagated in several ways, by seed to secure new varieties, and by grafting, division of roots and cuttings, to reproduce and increase existing varieties.

Raising new varieties from seed is perhaps the most interesting branch of dahlia culture. However, as it is so uncertain, and as the seedlings do not average up to the same standard as named varieties, it affords greater pleasure than profit. The seeds if sown in the greenhouse in March, potted off and planted out in May, will bloom the same season. The seed can also be sown in a mild hotbed or frame.

Grafting is another method of increas-

ing varieties that is more interesting than remunerative. It is an excellent method for the amateur, where a new or rare variety is a poor propagator. Take a small or medium sized vigorous tuber and a young shoot of the variety you wish to graft. Cut the base of the shoot to wedge form, but with one side of the wedge thicker than the other, and an eye on the thick side, then cut the tuber to corresponding shape, but a trifle smaller, so as to slip in and make a good joint, pot off and place in a warm shaded place. If care and skill are used every graft should grow. We usually graft a few each year as a curiosities for our friends.

Division of roots is the simplest way of increasing a variety. It is best to have the eyes started slightly although an experienced person can readily distinguish the perfectly dormant eyes. The eyes are on the crown to which the tubers are attached, and not on the tubers, hence in dividing, care must be taken that a portion of the crown containing at least one eye remains attached to each tuber or clump of tubers. This is the original method of propagation, and still used almost exclusively by amateurs and many florists.

Propagation by cuttings is now mostly used by all who grow dahlias in any quantity. When this method is used too much stress cannot be laid upon the necessity of securing good healthy stock, free from disease, and true to name. This is at once apparent, for if the stock is weak or diseased the plants will lack strength, with a greater percentage of losses. That the stock must be true to name is of the greatest importance. Suppose you purchase ten roots of *Nymphaea* and one should be *Oban*. *Oban* propagates twice as fast as *Nymphaea* and out of 100 plants you would have a mixture of twenty *Oban* and eighty *Nymphaea*. If the variety was *Frank Smith*, and one *Bird of Passage* was mixed in, the result would be still more disastrous, as the latter makes five cuttings to one of the former. Having secured your stock it should be planted in rich soil in a greenhouse bench, with a night temperature of about 50°-45° is better than 55° if you are not in a hurry and want strong plants, but of course 60° night temperature can be used if you are in a hurry, although at the cost of vigor. Just barely cover the roots in planting. When the cuttings have made two to three pairs of leaves cut them off—some prefer sprouting—taking care that they are cut at the base of two eyes, and placed in sand in the cutting or propagating bench, with bottom heat of 55° to 60°. They will root more quickly in greater heat, but will not be so strong. The length of time required in rooting

PATERSON, N. J.—Byron Halsted of New Brunswick will lecture before the Paterson Florists' Club on February 16, 1898.

depends on condition and size of cutting and the variety, and varies from ten days to four weeks, although the attention given has a great deal to do with it. The sooner the cuttings are potted off after being rooted the better, in fact we are so careful that the cuttings are all in the proper condition when struck that we pot off in about two weeks, whether they are rooted or not. Unless they have received some check, they are by that time either just rooting or ready to break.

The lower the plants are grown the better they will be; 45° to 50° is warm enough at night, although, thanks to a rugged constitution, a vigorous strong growing variety will stand anything from 34° to 100°. The size of the pots does not matter, but it is better to use 2-inch and then shift up for strong plants.

Dahlia plants can be planted as soon as danger of frost is over, and the roots about two weeks earlier; which, in the vicinity of Philadelphia and New York, is about the first of May for plants and middle of April for roots.

S. K. PEACOCK.

**Good Market Primulas.**

The illustration shows section of a house of primulas at the place of the well known Chicago florist, Mr. A. McAdams. Most of the plants are in 4-inch pots, and some of them measure twenty inches across, carrying from one to six clusters of flowers. There is considerable variation in the foliage, and some of the fern-leaved varieties are strikingly handsome. The flowers also vary very much, some fifteen distinct shades being represented. The blooms are of good substance, and measure from two to two and one-half inches in diameter.

The foreman, Mr. Joseph Reeves, has been at work on the strain for some time, selecting and improving the stock every year. He saves all the seed required for his own use from late sown plants, which bloom when the days are brighter, in March and April. These plants are grown on a north shelf quite close to the glass. Seeds for the salable stock are sown during the first two weeks of June in flats containing leafmold, and the seedlings are grown in this medium till they are finally shifted into 4-in or 5-in. pots, when a stiff rose soil, with a good proportion of cow manure, is used, sifting the same to get rid of the very fine earth and removing all the coarse lumpy material.

The plants are shaded until September, and bloom from the holidays onward through January and the greater part of February. This treatment evidently suits them, and they appear to be of good size for commercial purposes. B.

**Paris.**

The first meeting of the National Horticultural Society was held yesterday, but having been devoted to the election of the officers it presented but little interest for the American reader. The attendance was small and only a few things were staged.

In the floricultural division the most noteworthy exhibit was some very large sized bracts of the crimson as also of a new yellowish white poinsettia shown by Mr. Pfatzer, the successful chrysanthemum and forced fruit grower, who exhibited a pinkish bracted poinsettia a few weeks ago. Mr. Pfatzer carried off a first-class certificate for his exhibit.

Mr. Dugourd, the hellebore specialist, was awarded a second-class certificate for a collection of Christmas roses.

There were some fine plants of *Cypripedium insigne Chantini*, *Cypripedium Niobe*, *Cypripedium Leeannum superbum* (very fine), *Odontoglossum Mirandum* and *Odontoglossum Andersonianum*.

In the fruit section some splendid specimens of pears and apples were exhibited by Mr. Tassy.

In the vegetable division some good short roots of the Chinese yam were shown by Mr. Chappelier, who for ten years has been trying to obtain by sowing a much shorter yam which might be grown in shallower soils. The same party also exhibited a few roots of the *Stachys Floridaiana*, which in appearance are not unlike a big white caterpillar, and of the well known *Stachys suberifera*.

A stroll through our largest flower market, the *Quai aux fleurs*, brings us in contact with the following pot plants:

Azaleas, worth from	10c to \$2 00
Camellias	10c " 1 00
Cheiranthus Cheiri	06c " "
Cineraria	10c " 30
Carnations	20c " 30
Cyclamen	08c " 80
Epiphyllum truncatum	30c " 2 00
Eriens	10c " 40
Helleborus niger	20c " 40
Holera Japonica	30c " 40
Dutch Hyacinths	05c " 20
Roman Hyacinths	05c " 10
Imantophyllum miniatum	60c " 2 00
Labium floribunda	20c " 40
Primulas (box of 6)	10c " 80
Rhododendrons	10c " 1 00

Lilac	30c
Tulips	08c " 10
Viburnum tinus	15c " 40

At the cut flower market of the Halles Centrales we find at present the following flowers:

Acecia (Mimos) per Kilog from	\$ 20 to \$ 40
Anemones per 100 bunches	1 00 " 4 00
Marguerites per 100 bunches	1 00 " 3 00
Wallflowers common per 100 bunches	1 00 " 2 00
" (selected from Paris)	12 " 20
Lily of the Valley	15 " 30
Carnation, Marguerite, per doz	04 " 12
" fancy	04 " 12
Eucalyptus globulus, per bunch	20 " 25
Eupatorium	10 " 20
Hyacinthus albulus	01 " 03
Iris pumila caerulea	05 " 10
Narcissus per 100 bunches	1 00 " 3 00
Orange flowers per 100 buds	10 " 40
Rosa Ulrich Brunner per doz	20 " 80
" Madame Falcot	05 " 20
" Mlle. Marie Van Houtte per doz	20 " 40
" Marechal Niel	60 " 2 00
" Papa Gontier	20 " 60
" Paul Nabonnand	15 " 40
" Paul Neyron (from Paris) per doz	60 " 2 00
" Safrano	04 " 07
" extra fine	15 " 25
" Souvenir de la Malmaison	35 " 80
" La France	80 " 2 00
Ranunculus per bunch	03 " 08
Mignonne per 100 bunches	1 00 " 3 00
Forced Lilac (from Paris) per bunch	40 " 80
Snowballs	40 " 60
Violets large bunches	40 " 2 00
" medium sized bunches	40 " 2 00
" small bunches	60 " 1 00

All these cut flowers come from the Riviera or Southern France with the exception of the Cheiranthus Cheiri, lily of the valley, forced lilac and roses Paul Neyron. Cut flowers, in consequence of the rainy weather prevailing in the South of France, are plentiful on our markets and very cheap.

Up to the present time we have had very dull, hazy weather with very little frost, a state of things much disliked by our growers, who usually have to pay for it in March or April in the shape of distressing frosts.

FRENCHIE.

January 14, 1898.

**Flower Show Preliminary Premium Lists.**

THE CHICAGO POINT OF VIEW.

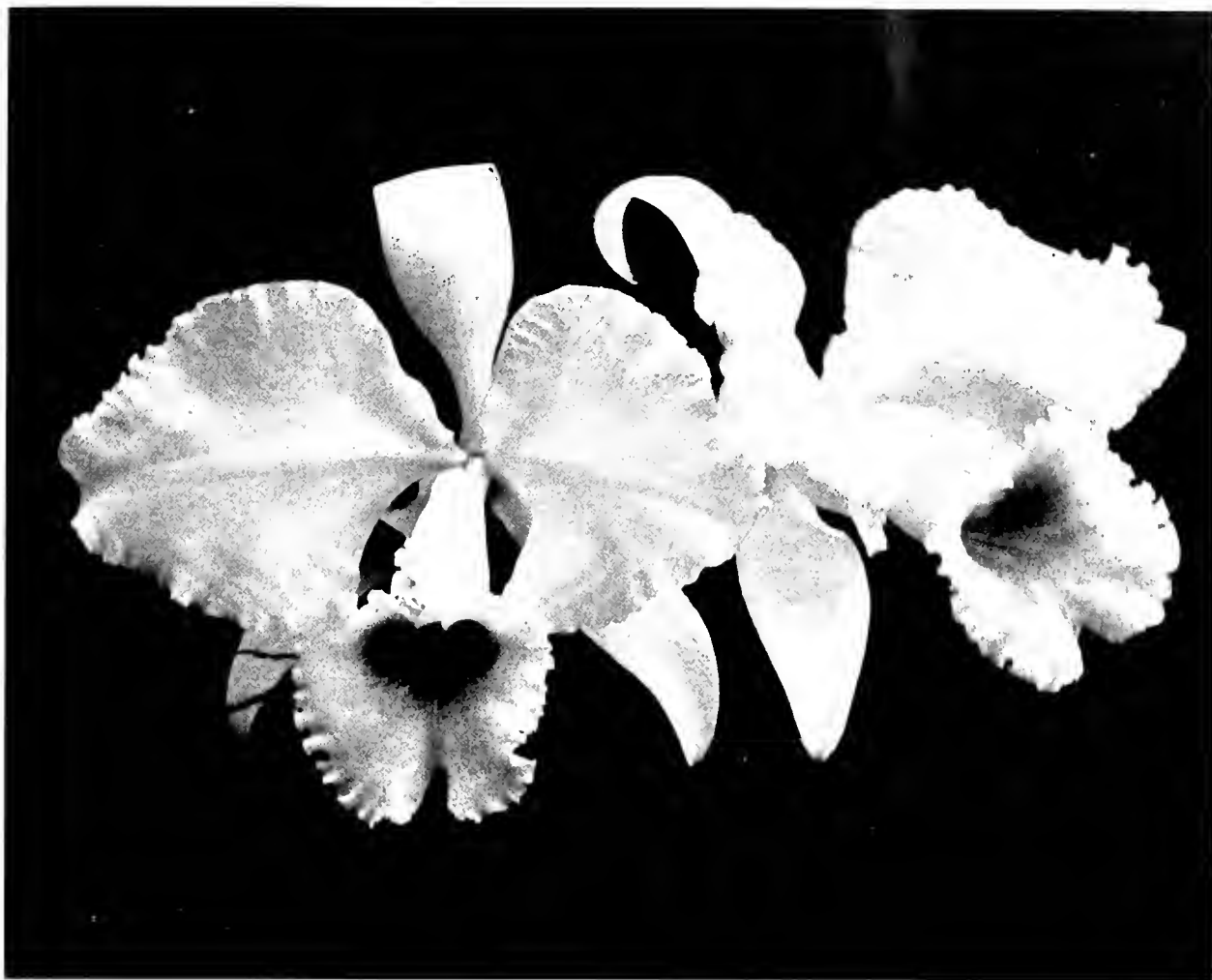
That premium list from which the largest percentage of premiums offered is won, is, as a rule, the best premium list. This is subject to some modifications and exceptions, but in general governs the compiling of the list of the Chicago Horticultural Society. The premiums are offered to be competed for and won, and any which fail to draw out a competition are considered mistakes. The percentage of premiums won to those offered has gradually risen from below 70 to above 90.

The conditions in every city are differ-



ANDREW McADAMS PRIMULAS, CHICAGO





CATTLEYA TRIANAÆ, LILIAN AMES CHATMAN.

ent, and a list which will be a success in one city will be a failure in another. A careful study of the conditions existing in the territory tributary to Chicago is made. Any changes which indicate a possibility of drawing out exhibits in new lines is promptly recognized by new premiums.

As there are comparatively few extensive private establishments in or near Chicago, it is necessary to look to the commercial men, largely as exhibitors. Many of them are young men lately started in business, with limited capital and unable to go to the expense of preparing exhibits when the ultimate reward is principally glory. They want cash, and in consequence liberal premiums must be offered.

The work on this year's list began with last fall's show. A careful examination of the entries for the different premiums was made. Suggestions were invited from exhibitors and visitors. The officers and many of the members were constantly on the lookout for "weak spots" and new features. There are now in the hands of the secretary a large number of suggestions. Such as are feasible are embodied in the new list, others which are valuable but not practicable at the present time are carried over for next year. Such premiums as draw a large number of exhibits can safely be somewhat reduced in amount while others which do not draw sufficiently well, or in which the exhibits prove especially attractive are increased. Expenses are heavy and economy is

necessary notwithstanding the large membership and liberal donations from members to the premium fund. A rental charge of nearly \$1,000 for five days is a heavy one, especially as the halls heretofore used are so wretchedly inadequate that many other expenses are more than doubled in consequence.

It is not to be understood that the society at any time loses sight of the main object for which all such societies exist, that is, the encouragement of new productions and new methods. This is held steadily in view. It is not thought, however, that the keeping of dead premiums on the list does any good in this direction. The impossible of last year, however, becomes the possible of this year, and each year sees new features added to the list and drawing good competitions, which if attempted a year or two sooner would have been failures.

Two classes of premiums are always offered, one class specifying artistic arrangement as the principal requirement, the other looking only to an exhibit of cultural skill. When best twelve blooms are specified they are judged solely as to the quality of the flower, stem and foliage. The question of art in staging or arranging is not considered, unless two exhibits are tied as to quality. When an arrangement for effect is specified, the quality of bloom is given less prominence and the skill in arranging practically decides the competition.

Scales of points are adopted and published in the list and while the point sys-

tem is a perennial subject for discussion and has been from a time to which the memory of man runneth not back, the fact that it is continued here indicates that it has worked satisfactorily.

W. N. R.

#### Cattleya Trianae, Lilian Ames Chatman.

This lovely form of *Cattleya Trianae* was one of a lot imported direct from Colombia and purchased by Oakes Ames, North Easton, Mass., sixteen months ago. Mr. Ames' gardener, Carl Blomberg, exhibited it, a small plant bearing two blooms, before the Massachusetts Horticultural Society on January 15, 1898, and received a silver medal for it. The flower is pure white, except for a light purple rose blotch and orange yellow veining in the throat. As shown in the illustration, the petals are broad and crested, boldly recurving and the throat is very long and broad.

#### Carnations.

##### NOTES ON NEW VARIETIES.

Now is the time to see carnations at their best. The mid-winter crop of flowers were produced at the expense of the growth made out of doors; and taking into account the check consequent upon planting, and deficient sunlight, this crop is not as good as that made when the plants have thoroughly filled the new soil with roots and become in a condition to take nourishment. It is from this new growth that we get our

exhibition blooms. From all that I can learn the forthcoming exhibition in Chicago will bring together the finest lot of flowers ever seen anywhere.

There is a vast difference between the old time varieties and the new ones, especially since disbudding has become universal. The standard set is high, but not too high. Ten years ago we did not have a variety which could produce flowers with a stem two feet long, and flowers measuring three inches across. We now have a score or more, in fact scarcely any others are acceptable. Some one says, "There are too many seedlings," and that we cannot keep up with them, but we must. The florist who does not is left behind. Even if no advancement resulted, deterioration would follow so quickly, that new blood would become necessary to keep up the standard. Mr. Hill says rightly "Keep on raising seedlings." Once Grace Wilder was peerless, but in time this grand flower had to give place to William Scott, and now we have evidence that the days of the invincible Scott are numbered. However, we borrow no trouble as mightier ones stand ready. Mrs. Fisher has had its day, even in the East, though it will be grown as a summer variety for some time, and for short stemmed flowers it has no equal in productiveness among its color. Lizzie McGowan is secure where it succeeds. Flora Hill is grand, but lacks a trifle in stiffness early in the season. We are pleased with Freedom, though aware of its lack of petalage. It is pure in color, healthy and productive. Its habit is stiff, wiry, scarcely needing support. I have it crossed with William Scott, and have used its pollen upon Mrs. Bradt. I further intended the reverse cross, but have not succeeded in obtaining pollen.

The composition of the soil is a factor in the cultivation of carnations which is not sufficiently taken into account, though it has been the experience of all that the same conditions of soil, and even thermal conditions, do not do for all, and no variety known to be good under certain treatment should be condemned because it will not bend to ours. Rather we should endeavor to find what its special wants are, and meet them. I need not go through the list of varieties which succeed here and fail there, such instances are in the minds of all growers. But just one: Our success with Ferdinand Mangold has occasioned surprise, and some acquaintances who have condemned it will now try to grow it as we do, in a light soil, also kept on the dry side. These thoughts came to me when considering the chances of our obtaining a good scarlet—one which will stand in the position William Scott has among pink flowered varieties. We have Jubilee, but it is not everybody's carnation, though undoubtedly grand where it succeeds, with no fault but one. Then we have Portia, which we shall not discard yet awhile and Hector has many admirers.

Hereabouts we have two looking for favor—"Bon Ton" and "Wellesley." The former I have not had the pleasure of seeing in growth. As shown at the New England Florists' Carnation meeting it was decidedly superior as an exhibition variety. For what reason I do not know "Fidley's" "Wellesley" did not look its best. I anticipate, however, that the best demand will make a splendid record, as it has every good quality to commend it. It has an excellent constitution, pure in color, and true beyond comparison. It is the result of a double cross, Portia x Florence, and progeny of E. G. Hill.

Fisher's "Morning Star" is a very

pretty white, and extremely floriferous, though not large in size. Mrs. Thos. Lawson, Peter Fisher's new salmon rose is the ideal of a careful and experienced hybridist. In spite of its free blooming qualities, it is safe to say "Nivea" will not stay with us long. Its ungainly habit alone condemns it. Those who practice summer culture indoors might give it a trial. C. A. Dana is a charming shade of delicate rose, but altogether too inconstant to become profitable. The same may be said of White Scott, while Edith Foster is spoken of highly. Mrs. Bradt gets nothing but praise. It is a bold and well-contrasted flower, not with faint pencilings, but bright lines. Scarlet sports of it have appeared in several places. If they could be held true, they would be valuable. Victor is fine, just a deeply tinted Daybreak. Thos. Cartledge though not new is becoming popular. Mr. Nicholson of Framingham, Mass., speaks very highly of Abundance, which has been condemned in some quarters for lack of stem. There can be no complaint on this score, as we saw it with him. Eldorado is unequaled so far among yellows, but subject to rust. Mr. Nicholson has Gold Nugget on trial, which promises to be fine. The flower and stem is all that could be wished. T. D. H.

many claim that it does not pay to take so much trouble with the plants; but it will be found in most cases that these little things become vital points where it is desired to keep any plant up to the standard.

Why is it that with some growers we find the varieties, Daybreak and Wm. Scott in perfect health and scarcely a rogue among them, while with others the same stock contains quite a large percentage of unhealthy plants, producing inferior flowers, all the plants coming originally from the same source? There must be neglect somewhere, and it is not always in the soil. In the varieties Mayor Pingree and Flora Hill I have also noticed a number of the plants showing "the yellows," and every flower either malformed or of poor color. The two latter varieties have proven here to be remarkable improvements in their respective colors. Nearly all the yellow varieties sent out have been, at some time or other, under my care, and I have seen none to approach Pingree as it is treated at this place. It will take a fine yellow to beat this variety when it is well done, and it is of the easiest culture and free from rust. The same may be said of Flora Hill which, though a little weak of stem, is far ahead of any white variety grown



WHERE THE DUTCH RAISE PLANTS.

#### Carnation Notes.

Too much care cannot be exercised in the selection of material for cuttings, especially with the variety Jubilee. A number of the plants produce nothing but single flowers all through the season, while in others the blooms come streaky or of a poor color. It is so much labor lost and good room wasted to propagate from stock of this character. I have not come across any variety that has the appearance of deteriorating more quickly than Jubilee if not handled properly. It is therefore a good scheme to have a few labels handy with which to mark the rogues as soon as they show themselves, and then they may be readily distinguished from the good stock in taking the cuttings. These apparently trifling matters are sometimes passed over by the growers as of little importance, and

in this section so far. My experience with Mayor Pingree is that it requires a tolerably stiff but porous soil, delights in ample watering, and requires a night temperature of about 55°.

Sharp watch should now be kept on the green fly, which multiplies rapidly if not repeatedly checked. This insect is very hard to dislodge when it once gets down into the young growth.

C. W. JOHNSON.

#### Dutch Nurseries.

Two weeks ago we published an abstract of a lecture on "Horticulture in Holland," delivered before the Massachusetts Horticultural Society by Mr. K. M. L. Farquhar, of Boston. Through this gentleman's kindness we are enabled to reproduce in this issue some pictures of nurseries in that country. The Dutch

nurseries have long been famous, and those of our readers who handle imported stock will doubtless be interested in the source of a large proportion of it.

#### More About the Blue Marguerite.

This ever-cheerful little plant, *Agathaea cœlestis*, the subject of a sketch in a recent number of the *AMERICAN FLORIST* seems to have fallen into undeserved obscurity of late years. It has never been so well known among florists as its merits would warrant, but it was highly prized among private gardeners some few years back.

It presents many claims for popularity with the discriminating floral fraternity, among which are its charming color, its long and wiry stems, and pre-eminently its free and continuous flowering habit, blooming as it does, the whole year round. The ideal temperature for winter flowering is from 55° to 58°. The material used for potting should be on the light rather than the heavy and retentive side to accomplish which there is nothing better than a liberal use of leaf mold. Cuttings put in the sand bed in the latter part of February or early March and carefully attended to, ought to be large enough by late fall to occupy at their final potting a 6 or 7-inch pot, in which sizes they look best for decorative or gift plant purposes.

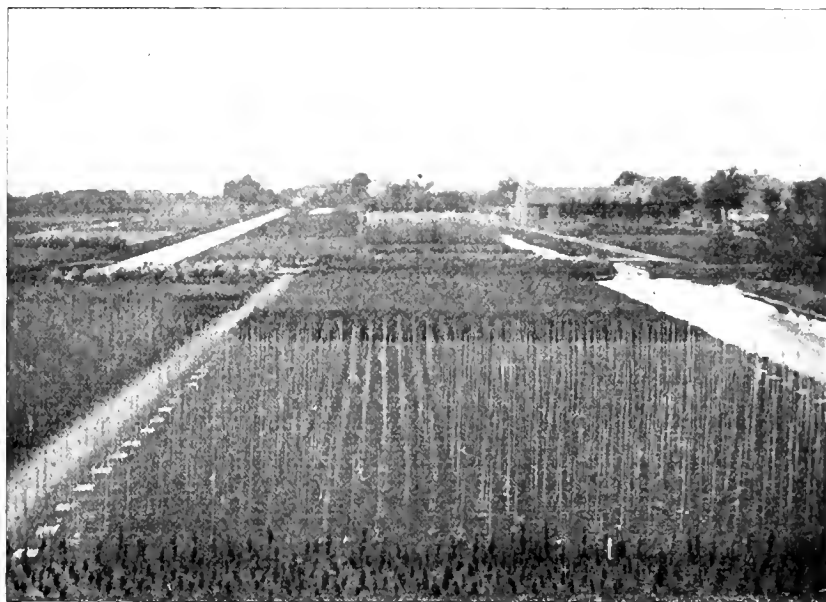
It may be interesting to state that in the south of France the blue daisy grows outdoors all the year round and attains a height of four feet and an equal width; the native florists shear it over even in early spring in the same manner as the Hollanders do with azaleas. K. F.

#### Boston.

**BOSTON HAS A BLIZZARD.—TRADE CONDITIONS IMPROVING.—DEMAND FOR AMERICAN REAUTY CANNOT BE ACCOMMODATED.—FINE PRIMULA OBCONICA PLANTS.—MR. DOOGUE'S LATEST TROUBLE.—A GOOD SCARLET CARNATION.—LOCAL NOTES.**

Boston's sensation, at present, is a blizzard; a fairly vigorous one, too, according to our thinking. We have heard considerable about these functions elsewhere and have sometimes felt a little jealous of those localities where blizzards are made while you wait, but now we have one of our own and it occupies our attention to the exclusion of everything else, flower business included. As these notes are being penned the railroads are buried deep in snow and whether they will ever reach Chicago is very doubtful. Trolley, telegraph and telephone wires are down and the flowers, if there are any on the bushes, will stay there for today, at least, as there is no way to get them to market, but this is no great privation since the flower buyers are in the same predicament and cannot get to market either, and flowers without buyers are as impotent as buyers without flowers.

All this comes at an inopportune time, for a most agreeable activity has been developed during the past few days, a sort of reminiscence of the good old times when the buyer was the suppliant and the grower or wholesaler could afford to stand his ground, and under average conditions the good thing might reasonably be expected to continue until Lent should come in. It is noticeable, however, that the demand, while red-hot on certain specialties, is rather weak outside of those lines, so although the telegraph boys have resumed their long-neglected route among the wholesale establishments and the retailers have adopted for the time



THE CANALS OF A DUTCH NURSERY.

being a bearing of humility that is very becoming to them, yet a box of nice violets or lily of the valley is surveyed with exasperating indifference. It is not lily of the valley or violets they are seeking, American Beauty—that's what they want; American Beauty—that's what they cannot get, particularly the long-stemmed top grades. The poorer grades are accepted of necessity, but with very wry faces and very pertinent allusions to the ossified condition of the wholesalers' conscience. In passing, it is proper to note the bright color and general high quality of the Bridesmaids now coming to this market. This is a rose that seems to grow better every year; no retrogression about the Bridesmaid.

A dozen pots of *Primula obconica* from John Barr, gardener to Mrs. B. P. Cheney, were the objects of much admiration at Horticultural Hall last Saturday. The individual blooms were of unusual size and fullness and the range of tints was remarkable. There are few prettier table plants than *Primula obconica* when well grown and it is to be regretted that an unreasonable prejudice as to its poisonous properties should have made it an outcast.

There has been a renewal of the controversy, which comes up annually in some form, as to the ability and fitness for his position of Superintendent Doogue of the Public Garden. The present cause is the action of Mayor Quincy in nominating C. E. Stratton of the Boston Park commission to serve as superintendent without pay. This is equivalent to giving the Park commission full control of all public squares, but is not regarded as meaning that Mr. Doogue is to be dispensed with or his salary reduced. Confirmation of the mayor's action by the aldermen is necessary and is not regarded as probable.

One of the most prominent of recent carnation introductions is Wellesley raised by J. Tailby & Son. It is just the color that all have been wishing for, a brilliant scarlet, vigorous and handsome and has had a thorough four years' test.

The firm of Magee & Tiernan, Chelsea, has been dissolved by mutual consent, and the business will be continued by J. E. Tiernan at the old stand.

Frank M. Bartram of Parry, N. J.,

delivered an interesting lecture on "Nuts, and nut culture," before the Massachusetts Horticultural Society on January 29.

A meeting of the Gardeners' and Florists' Club was to have been held on Tuesday evening, February 1, but the blizzard interposed an effectual veto.

John Devine, John Dunbar and W. A. Bock each had one house crushed in by weight of snow. The whole establishment of M. J. Aylward was ruined, and it will take seventy-five boxes of glass to repair the damage at Waban conservatories.

A few members of the "Old Guard" spent a pleasant evening at Mr. Edgar's on February 2.

Reports are coming in of many greenhouses more or less damaged by heavy weight of snow.

Visiting Boston: J. H. Dunlop, Toronto, Ont.

#### New York.

**MORE SATISFACTORY MARKET CONDITIONS.—COLORED ROSES, FANCY CARNATIONS, ETC., IN BRISK DEMAND.—WHITE FLOWERS LESS DESIRABLE PROPERTY.—STORMY WEATHER SHORTENS RECEIPTS.—A SMALL DELEGATION FOR THE CARNATION MEETING.**

Present market conditions offer the rare opportunity to write a favorable report. Seldom does it happen that the demand is so assertive and the good stock finds so ready and willing a market with no surplus left to cut down the dealers' returns or embarrass the prospects of the next day's receipts. It cannot be said truthfully, however, that this fairly satisfactory condition is the result of a largely increased consumption of flowers; rather is it due to the heavy storms and howling weather that we have been treated to recently, which has reduced the production and which cannot be depended on for any permanency. It is also a fact that business is particularly good only in spots; while the bustle is encouraging, and the aggregate value of sales is most gratifying yet the proceeds will go mainly to the growers of American Beauty, Meteor and Bridesmaid roses, and that part of the sales book devoted to the Brides and white flowers in general presents a strong resemblance to the pages of the past

month. Excepting in the case of the limited quantity of extra fancy lily of the valley coming in this flower continues to drag badly. Violets are in full supply and only superb blooms can be expected to touch the dollar mark. Carnations, fancy grades go lively; inferior grades move slowly. Tulips steady. Heavy receipts of yellow narcissuses in the various market sorts have been coming in and prices are off, especially on large lots when the dealer is fortunate enough to find an opening for such. Smilax shortening up in quantity and prices better. Asparagus not up to the mark in quality.

The representation from this vicinity going to the carnation meeting in Chicago is not likely to be large; very few can be found who express an intention to go, but many there are who say they "wish they could."

Club dinner tickets for February 26 are selling well.

Johnnie Weir has been celebrating the twenty-fifth anniversary of his wedding this week. Johnnie never does things by halves, especially where his better half is interested, and the host of friends who attended the function are recovering slowly.

#### Philadelphia.

STOCK SHORT.—MEETING OF THE FLORISTS' CLUB.—PAPER ON POT PLANTS FOR THE HOLIDAYS.—ANOTHER CHEAP PALM SALE.

We notice that accounts of the weather in last week's columns from the various horticultural centers all agree; 'twas bad everywhere, and as misery loves company we are in a measure satisfied. The thermometer registered six above zero this (Wednesday) morning, but as the day was bright and clear the effect on stock will be good.

Flowers, particularly roses, are still scarce, and prices remain about the same as last week. There seem to be no hybrids to help out, as was the case in former seasons. Hybrid forcing has of late years been such risky business that most growers have given it up entirely or grow but few.

Bulbous stock is now quite plentiful. Double daffodils are to be had in quantity at \$5 per hundred. Harris is sending some nice Golden Spur, which sell well at \$6. Tulips are quite equal to the demand at \$1. The carnation crop has shortened up a bit, and there is a good demand for all that comes in at \$1.50 to \$2.50 for the best, a few extras bringing \$3.

Victor is showing up in grand style, and will be planted largely next season. Grace Wilder was queen of the pinks for a long time, conquering many "just as good or better," kinds that tried to dethrone her. Finally Wm. Scott succeeded to the kingdom, and has reigned triumphant ever since. It looks now, however, as if the victor had come. We are sorry for William, but every dog has his day, and his memory will ever remain the lovely pink that he was.

Violets seem quite abundant and the price has weakened a bit, \$1 is now high, and the quality must be good (that is for our standard here) to command it.

Rod Eisenhart of double violet fame, says, in speaking of the Klondike (growers let their hands run in that direction occasionally) that he would rather stay home and grow violets than go up there and dig for gold. We have thought as much for a long time. There are others besides Mr. Eisenhart who have little Klondikes of their own, and don't want anything better. Among the beauty growers it is said the dirt pays out very rich, as much as \$100 to \$200 being

realized from the first early morning gleanings.

The February meeting of the Florists' Club was not very well attended. There was quite a nice show of carnations, some promising seedlings being among them. C. M. Fick has a fine large white, some of the flowers being three and one-half inches in diameter; it has a fine long heavy stem and appears to be a good thing. Another beautifully fringed white is very pleasing. A full fringed Daybreak pink named Laura E. Doty promises well.

John Kuhns, of Fifth and Tabor streets, had a few seedlings, the best being a fine flower a few shades darker than Daybreak; this looked well.

Maud Adams, a fine large, long stiff stemmed flower of a pleasing salmon scarlet, as it appeared at night, attracted much attention; it is apparently a comer.

A vase of Evelina by R. Witterstatter, of Cincinnati, was in good form, having carried the long distance well.

F. Doerner & Sons Co. sent a vase of White Cloud, which is a fine flower and received considerable attention.

The next meeting of the club has for its central issue, "The Lily, Its Disease and What are We Going to Do About It?" Mr. Harris is to open the subject, which by all concerned, from seedsmen who supply the bulbs to growers and retail men, is considered of vital importance. Mr. Harris stated that he had thrown out about half the bulbs stored and expected to have to throw out about half of those he had left. The disease develops as the bulbs grow, and is much more prevalent this year than ever before. Lilies may sell for more than 10 cents a flower the coming Easter.

The ladies' reception of the club is blossoming out into a grand affair, and promises to be the swell event of the season among the craft.

John Westcott's paper, the event of the meeting, was read by Mr. Rust; it was on pot plants for the Christmas holidays, and contained a very complete list. It was directed to be published, and he received the thanks of the club.

Another cheap palm sale is soon to take place at Wanamaker's. A nice arca in a 6-inch pot, or rather three plants to a pot, fifteen leaves three feet high, eighteen months old, has been offered there for 40 cents. We believe they are to offer a jardiniere and plant together for \$1. If this pays the grower there must be money in palms at twice this figure, the regular wholesale price. K.

#### Death of Mrs. Josephine Krick.

Mrs. Josephine Krick, widow of George Krick, died January 30, of pneumonia, after a short illness. Mrs. Krick was an old settler in Chicago, having come here with her husband over thirty-five years ago. Mr. Krick was engaged in landscape gardening for a number of years; he executed several large contracts, one of which was furnishing trees for Lincoln Park. Soon after the war Mr. Krick built greenhouses on Division street and started in the florist business. After building the greenhouses his time became so taken up with other business that he could not attend to them. He gave them, together with the florist business to his wife, who managed it for over twenty years with remarkable skill and shrewdness.

In October, 1871, she had the greenhouses on Division street, and also on some land which she had bought on Dearborn avenue. The great fire of that year

swept everything away. The greenhouses on Dearborn avenue were rebuilt before winter set in. In the spring of 1873 Mrs. Krick had a small conservatory about 10x14 feet built near the corner of Randolph and State streets, where Central Music Hall now stands and started to build up a retail trade in the central part of the city. Mrs. Krick conducted this business for over eighteen years, devoting her whole time to it. This business has been on practically the same spot for over twenty-five years. While the music hall was being built, temporary quarters were secured in one of the stores



THE LATE. MRS. JOSEPHINE KRICK.

a few doors south; as soon as the building was completed it was moved back to the place where it was first started.

About six years ago Andrew Miller secured an interest in the business and assumed the management, the name being changed to the Central Floral Co. Three years ago Mrs. Krick disposed of her remaining interest in the business.

#### Toronto.

An amendment to the law was passed at the session of the local legislature just closed, empowering park officials to trim or remove trees on the streets of the city, with or without the consent of persons opposite whose property said trees may be standing. As most of the trees on the streets of this city have been planted by the property owners, and have been carefully watched and tended in some cases for many years, it is to be feared that some friction will result when the woodman with his axe begins removing what he may consider objectionable trees. It is a question with two sides.

MILWAUKEE.—The announcement in the last issue of the AMERICAN FLORIST, of the coming marriage of Mary A. McKenney to F. B. Davis, of Milwaukee, was without due authority. There was also a misrepresentation of business facts in stating that Mr. Davis was employed as cashier by Miss McKenney. Miss McKenney has for more than a year been associated with Mr. Davis as a partner in the business which has been conducted under the firm name of M. A. McKenney & Co. C. B. WITSELL.

**THE AMERICAN FLORIST**

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The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-  
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

**Potash in the Soil.**

An article in the last issue of the AMERICAN FLORIST suggests the use of muriate of potash in place of wood ashes on account of its cheapness, considering the amount of potash it contains. Muriate of potash is nearly one-half potash, while wood ashes ordinarily contain considerably less than 10%.

The florist should be cautious in the use of this chemical in place of wood ashes. Even for farm crops the muriatic acid which it contains, when set free by decomposition, has in some cases, been found injurious. The element of cheapness, within reasonable limits, is of very little importance to the florist, when compared with safety and availability. Wood ashes are a safe fertilizer and are no experiment, while we believe the other has not been so carefully tested on roses, carnations, etc., under glass as to render it safe for general use.

Wood ashes contain a large proportion of lime in a very available form, and a small percentage of phosphorus also. Phosphorus is necessary for all crops, and lime is of especial value in many soils.

In using wood ashes it should be borne in mind that any substance containing lime in an active form will, if mixed with ground bone, set the ammonia in the latter free, to escape as a gas and be lost. Nitrogen is an element of ammonia and the most costly of the essential ingredients of fertilizers.

A prominent firm has recently advised a mixture of wood ashes and bone meal as a top dressing for lawns. What a sad waste of a large part of the most valuable element in the bone!

A LATE REPORT of the Department of Agriculture places the amount paid out in salaries by this department at \$1,867,980 per annum. Recent agitation shows what the seedsmen get in benefits from this vast sum. Nursery interests receive some attention, but where do the florists come in? A careful perusal of the last annual report of the secretary fails to answer the question. If there is one office boy out of this array of employes whose time is devoted exclusively to floricultural matters, the fact is not made prominent. Perhaps the War Department has charge of this branch. The Washington florists may be able to tell us.

**Government Inspection of Nursery Stock.**

A bill has lately been introduced into the United States Senate providing for the inspection of nursery stock. Section three, of the bill reads as follows:

That all trees, plants, shrubs, vines and buds, commonly known as nursery stock, grown within the United States, may become subjects of interstate commerce under the rules and regulations as hereinafter provided. The Secretary of Agriculture shall cause to be inspected by a qualified entomologist all trees, plants, shrubs, vines and buds, known as nursery stock, which are subjects of interstate commerce, and which are about to be

transported from one State or Territory or the District of Columbia to another State or Territory or the District of Columbia. This examination shall be made prior to September first of each year, in the manner provided for and prescribed by the Secretary of Agriculture; and if such nursery stock is found to be apparently free from dangerously injurious insects or diseases, the certificate of the officer making such examination and finding shall be issued to the owner or owners of such nursery stock, a copy of which certificate shall be attached to and accompany each carload, box, bale or package, and when so attached and accompanying shall operate to release all such nursery stock from further inspection, quarantine, or restriction in interstate commerce.

The bill further prohibits the interstate transportation (by mail or otherwise) of any unsuspected stock.

The question of certificates and legislative action looking to the compulsory inspection of such stock has been very carefully considered by Mr. John B. Smith in a recent bulletin of the New Jersey Experiment Station. Mr. Smith says:

\*\*\* certificates are liable to be misused, and that no examination of a nursery can be sufficiently thorough to make it safe to say that any particular scale or plant disease is not present.

In one case at least infested stock has been sent to Ohio from New Jersey, bearing my certificate. The stock was such as was not grown in the nursery from which it was sent, and I have reason to believe that my certificate was put on everything sent out from that nursery, no matter where grown or whether seen by me or not.

Let us look at the matter a little closer, and see what giving a certificate of actual freedom involves. In one nursery in New Jersey there are to-day something like 2,500,000 peach trees, of which 750,000 are ready for sale this year. Several other nurseries have from 250,000 to 500,000 trees ready for sale. Plant a conscientious entomologist is a block of 500,000 trees, and require him to certify that no San Jose scale is present. Assume that he can thoroughly examine one tree in one minute, which is a very violent assumption, and give him ten working hours per day. That means that he will have examined 600 trees in one day, and will require over 800 working days before he can say that no San Jose scale is present. Compel him to certify also to yellows, rosette and other dangerous insects and plant diseases, and the absurdity becomes the greater.

I have little sympathy with the effort to control insects by law because experience has shown that unless legislation has public opinion behind it little benefit will be derived.

Mr. Smith's bulletin is a complete demonstration of the absurdity, almost criminal, of this bill. It would seem that about the only results would be the spending of a large number of Uncle Sam's dollars in order to hamper and harass the trade, without the slightest possible chance of checking the spread of fungus or parasitic diseases.

The bill as presented is so loosely drawn as to be of no value in any event. It does not provide for the inspection of a whole nursery, but only of such stock in the nursery as is "about to be transported, etc.," and that, prior to September first of each year. In a nutshell it provides for inspection which does not inspect. Perhaps, however, we have mistaken the true intent of the bill and that it is only designed to nullify some of the noxious state regulations lately passed. If that is the case, it is a poor way of attaining a good object.

**Canadian Horticultural Association.**

A meeting is called for February 10, at 9:30 a. m. in St. George's Hall, Elm street, Toronto, Ont., for the following objects: 1. The completion of the organization of an association of Canadian florists, horticulturists and gardeners. 2. The adoption of the proposed constitution and by-laws. 3. The election of officers and the executive committee for the year 1898. 4. The incorporation of said association. The officers pro tem are Wm. Gammage, London, president; J. H. Dunlop, Toronto, treasurer; and Hugh C. McLean, St. Thomas, secretary. A large attendance is earnestly requested.

**Carnation Society Convention.**

Mr. P. J. Hauswirth, 318 Wabash avenue, chairman of the committee of arrangements for the American Carnation Society Convention, will have rooms at the hotel reserved for those requesting it. He asks that correspondents be particular to say whether American or European plan is desired, and if the latter what priced rooms.

The reduced rates on American plan are \$3 per day (with meals) on the European plan (no meals) the rates are from \$1.50 per day upwards. It is desired that as many as possible stop at the Auditorium. The hotel is one of the finest in the land; very low rates have been granted; the halls for meetings and exhibitions have been given free, all of which favors should be considered.

**Japanese Lily Bulbs.**

ED. AM. FLORIST:—We read a notice in your last number under the heading, "Disease of Japanese Lily Bulbs," and would like to say a word or two about this subject, because we believe we know a little more about it than anybody else.

Our Mr. Bunzo Suzuki bought a lot of Harrisii bulbs three years ago to have them tried in Japan. Being well aware that part of the Bermuda bulbs are affected by disease, strict orders were given to our Yokohama house to destroy every plant that should show the slightest sign of disease, but to our great surprise every plant looked as healthy as our own Japanese longiflorum stock. This year we exported the first thousand bulbs to the United States, and they are forced by two expert growers who report that the plants are looking very fine and healthy, decidedly just as well as the best Bermuda. There is no fear that the Bermuda disease might be disseminated in Japan, and no sign of such a disease was ever seen in Japan.

As this question was brought up in your paper we would be much obliged would you kindly rectify the above mentioned notice.

SUZUKI & IIDA.

**Crotons and Acalyphas.**

BEST BEDDING VARIETIES.

"Croton Crank" wishes us to name the five best crotons, and the five best acalyphas for bedding.

I know of no better crotons for bedding than Baron James Rothschild, Queen Victoria, Andreanum, Day Spring, Weismannii.

Acalyphas: Macafeeana, Marginata, Mosaica, Obovata, Triumphant, the latter is probably the best of the lot, especially in the matter of rich coloring.

ROBT. CRAIG.

GALT, ONT.—The annual meeting of the Galt Horticultural Society was held recently. The officers report excellent conditions. There are 116 members. The following officers were elected: President, H. Spencer Howard; first vice-president, John Wells; second vice-president, Jesse Welland; secretary, Mr. Colvin; treasurer, R. Baird.

ELMIRA, N. Y.—A call has been sent out for a meeting looking to the organization of a horticultural society. Prospects seem good for a flower show this fall.

SPRINGFIELD, MASS.—W. F. Gale has been appointed city forester by Mayor Dickinson

## Rochester, N. Y.

The attendance at the annual convention of the Western New York Horticultural Society on January 26 and 27 was considerably larger than at any time during its forty-three years of existence. The hall was crowded to its utmost capacity with interested listeners from all parts of the state, when President W. C. Barry opened the morning session on the first day, calling the meeting to order in a brief manner. His regular annual address was entirely omitted this year, because there was too much business on hand. All the speakers were prominent and experienced men in horticultural affairs, among them being Director I. P. Roberts, Entomologist M. V. Slingerland, Prof. Duggar, plant pathologist, and Mr. Surface, all from Cornell University, Ithaca, N. Y. The Geneva experiment station was represented by Director W. H. Jordan, entomologist V. H. Lowe, chemist L. L. Van Slyke; the horticulturalists S. A. Beach, W. Paddock and C. P. Close and Mr. W. P. Barnes, head man of their greenhouse department. Prof. W. B. Alwood of the Virginia experiment station, read the first paper, "Results of two years experiments with San Jose scale." "Facts about the enemies of fruit trees," was the next treatise read by Prof. Slingerland, who also gave us a unique lecture on "Bugs, from a bug standpoint" in the evening. "Our public schools and horticulture" was the theme of George T. Powell from Glent, N. Y. "The Pan-American exposition on Cayuga Island in 1899," by R. C. Hill. "The removal of various institutions to the country and preparing the inmates for rural occupations, rather than to keep them in the cities," was advocated by Mr. Van Deman in a lengthy speech. The second day's session was opened with a talk on "Plant food" by Dr. L. L. Van Slyke; Mr. W. T. Mann of Barkers, N. Y., followed on "Experiments with various fertilizers;" Director W. H. Jordan spoke on food values of fruits and Director I. P. Roberts closed the forenoon session with "Questioning the soil." Informal discussions were now indulged in while the fruit exhibits were examined in the adjoining room, where the tables were loaded with most attractive specimen fruits in great variety. Most of these came from the Geneva experiment station and the Ellwanger & Barry nurseries. A very large collection of apples, 185 varieties, were exhibited by the Geneva people, and Messrs. Ellwanger & Barry made a most creditable display with finest winter pears, apples and a large collection of grapes in excellent state of preservation. Mrs. P. Barry also showed six varieties of hothouse grapes, grown in her private vinery. The bunches were extra large and well formed and not a damaged or decayed berry could be found in them. The afternoon session was made interesting by talks on "Plant diseases" by W. Paddock, the report on "Vegetables" by Mr. F. Franke, Irondequoit, N. Y., and a carefully prepared paper, read by Mr. John Dunbar of our party, on "Ornamental trees and shrubs," which was listened to with greatest attentiveness and highly appreciated by all nurserymen in the audience. Mr. Van Deman, of Virginia, gave us hints on "How to treat an old or hard," Mr. Paddock startled the hearers by stating that some more new plant diseases had been discovered in the past year and that not much is known about them as yet, nor has any remedy been found for the prevention of ravages caused by these new pests. The contents of the question box were now discussed, one

slip after another came out and it was late when the huge congregation dispersed for another year, all being well pleased with what knowledge they had gained by attending the meeting of the old society. J. B. K.

GREENVILLE, O.—James Frost lost nearly 800 square feet of glass on January 25 by hail. Insured in the Florists' Hail Association.

## SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1888 will receive on request, a coupon for one five line want "adv." free, to be used at any time during the year.

**SITUATION WANTED**—By a first-class rose grower: 15 years' experience. Good references. Address D W, care American Florist.

**SITUATION WANTED**—By a competent store man, late with Friedman; reference given by Chicago wholesale florists. R A, care Am. Florist.

**SITUATION WANTED**—By an A No. 1 manager of wholesale or retail store; twelve years' experience in prominent cities. Correspondence solicited. G, care American Florist.

**SITUATION WANTED**—By experienced gardener and florist (Scotch) to take full charge of private place; best of references married, age 38. W S, care American Florist.

**SITUATION WANTED**—By A-1 general cutflower grower; good decorator. Recommendations furnished; German America; 30 years old. Address V G, care American Florist.

**SITUATION WANTED**—By an experienced gardener and florist, to take charge of private or commercial place; age 38, married. Best of references. CHICAGO care American Florist.

**SITUATION WANTED**—By first-class rose, carnation and violet grower, married, no children; reference given. Address TRE MUNICE FLORAL CO., Muncie, Ind.

**SITUATION WANTED**—By young man to learn the florist trade; sober and reliable; state terms. Address W. C. GREGORY, Box 22, Markham P. O., Ontario, Canada.

**SITUATION WANTED**—A competent seedsmen wants situation with a reliable seed house; can speak Dutch, German or English; correspondence solicited. H, care American Florist.

**SITUATION WANTED**—As foreman in large cut flower establishment by an A1 rose grower, 24 years' experience; 12 years as foreman in large places. Best references. Address GROWER, care American Florist.

**SITUATION WANTED** By practical florist of 17 years' experience, good cut flower grower, roses, carnations, etc. Competent to take charge; would work on shares. Reference and bond given. Address RELIABLE, care American Florist.

**SITUATION WANTED** By single man, age 25, as second man or to take charge of small place; good grower of cut flowers and bedding plants, steady and reliable; discharged March 1st. Address R L, care American Florist, Chicago.

**SITUATION WANTED**—As foreman by practical florist and grower; specialty No. 1 roses, carnations, mums, violets, general stock, etc. Now discharged, age 38. Best references. Address W H, care 64 E. Main St., Alliance, Ohio.

**SITUATION WANTED** By florist and gardener, private or commercial; good grower of roses, carnations, violets, mums and general stock; also all kinds of fruit and kitchen garden crops, etc. Address G A S, care American Florist.

**SITUATION WANTED** As foreman with some refined party by a practical grower of roses, carnations, violets, mums, palms, ferns and general stock, forcing of bulbs, a life experience; references O. K. Address FOREMAN, care American Florist.

**SITUATION WANTED**—As first-class florist, young German; understands thoroughly growing of cut flowers, all kinds of general stock, good hand at arranging bedding, funeral designs, 12 years' experience; don't use tobacco or drink, well preferred, good wages expected. References would like to make a change this spring, good place and wages expected. J B, care American Florist.

**SITUATION WANTED**—As foreman in cut flower establishment, mostly roses and carnations; must be up to date in conventions, by all round man, able American man years' experience; don't use tobacco or drink, well preferred, good wages expected. References 240 Cottage Grove Ave., Des Moines, Ia.

**SITUATION WANTED**—As foreman or manager in large commercial place by a first-class grower of roses, carnations, mums and general stock. His experience, married, age 36, has been foreman in large establishments for the past ten years, only reliable parties who wish a first-class man need answer, best of references. Address ROSE GROWER, care American Florist.

**WANTED**—Catalogues of rose growers. Address DAVID MCGEORGE, Galt, Ont., Canada.

**WANTED**—Catalogues of the trade. EDWARD MULICK, Grand Rapids, Mich.

**WANTED**—The address of Carl Jorgensen, Dane, Amager. Address L. JENSEN, South Butte, Mont.

**WANTED**—A1 grower of cut flowers and general stock. In writing please state experience, wages expected and references; no drink or men need apply. YORK, care American Florist.

**WANTED**—A competent man for cut flower department and making up floral designs and bouquet work; also one that understands decorating and general greenhouse work. Apply CHARLESTON GREENHOUSES, 329 Meeker St., Charleston, S. C.

**WANTED**—Foreman on commercial place, California; must be experienced in handling men; with unquestionable knowledge of propagating and growing, both inside and out; competent to take charge. Good habits and best of references. Address CARNATION, care American Florist.

**WANTED**—Young man thoroughly experienced in the best class of retail florist business; must be first-class in window, table and wedding decorations, also design work. Apply with references, ability, etc., stating wages expected. J. H. DUNLOP, 445 Yonge St., Toronto, Can.

**FOR SALE**—One Alaska refrigerator in first-class condition. JOHN H. ORTH & Co., McKeesport, Pa.

**FOR SALE**—Retail florist store, stock and fixtures—established trade, good location—on account of health, at a sacrifice. O B N, 642 Marshall St., Philadelphia.

**FOR RENT**—Seven greenhouses, stocked; dwelling and land, steam heat; convenient for Baltimore wholesale market, and fair local trade. Address MARYLAND, care American Florist.

**FOR SALE**—Greenhouse plant of 5,000 feet of glass in Jamestown, N. D.; price \$1,500; 1/3 cash, balance may be paid in cut flowers. Address W. W. SEEKINS, 321 E 3rd St., Duluth, Minn.

**FOR RENT**—Greenhouse, 6,000 feet of glass on Main street; street cars pass the door; store and dwelling house connected with same place. \$35 per month. P. N. SOETGA, 162 Cedar Ave., Cleveland, O.

**FOR SALE OR RENT**—About 15,000 feet of glass in a rapidly growing western city of 40,000 people; hundreds of towns and villages with no greenhouses in surrounding country; greenhouses are well built, well stocked and have the largest trade here, which can be greatly extended; owner has other business that requires all his attention. Nowhere in America is there a better chance for a florist with a little money than here. For full particulars address "BUSINESS," care American Florist.

## FOR SALE

or rent with privilege of buying—established greenhouse property consisting of four houses about 100x25 feet each; boiler house and pack rooms; 12-room modern dwelling, two acres land; 10 miles from Philadelphia, near R. R. station, steam heat; splendid chance for right party. JOS. T. SULLIVAN, Moorestown, N. J.

## PIPE WANTED.

Second-hand Hitchings' or Weathered's cast 4-inch pipe, 2,000 feet (or any part thereof). Give CASH price I. U. I.

J C, Station A, 79 Pine St., New Haven, Conn.

## FOR SALE.

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health

For particulars **ELLIS & POLLWORTH,** Milwaukee, Wis.

## Valuable Greenhouses FOR SALE

A Rare Opportunity—Seven Greenhouses in St. Louis County with or without stock, for sale cheap. Owner has other interests requiring all his attention. A bargain. For further particulars address

**E. H. MICHEL,**

Care of St. Louis  
Cut Flower Co.

1620 Olive St., - ST. LOUIS, MO.

**Sterilizing Soil for Destroying Eel Worms.**

Western Reserve asks how I construct my apparatus for this. In the first place the size of the boiler must be governed by the size of the compost heap, but it will be economy to have a boiler of ample size, as it is absolutely necessary to maintain 45 to 50 pounds pressure for 1½ to 2 hours at a time. Presuming that W. R. has 150 to 200 loads of compost to steam, I should advise him to have a boiler of at least 25 horse power with a liberal sized smoke-stack to cause a good draft. Set this low enough in the ground (covered in) to ensure all the condensed water returning freely to the boiler. This being done then proceed to build the bins to hold the soil; these should be about 12 inches deep and 3 to 3½ feet wide and 12 to 16 feet long. The sides can be of heavy planks full width without a joint. Set posts solidly in the ground at about 3½ to 4 feet apart in a straight line facing toward the inside; to these posts securely nail the heavy planks, keeping the tops level. The center row of posts should be faced evenly on both sides. This allows the planks to be nailed on both sides of them.

Two bins are necessary. When the bins are all completed (these should be under a shed with plenty of head room above for free working space); level the bottom soil off quite even, but with a slight dip from one side to the other of not more than one inch. This done you are ready for the pipes, which are best made of one-inch with holes on their sides in about every third pipe at 15 to 18 inches apart. The pipes at the bottom of each bin are virtually a coil, but should be made with manifolds at each end and each pipe must be of just even length so that when completed and in position it practically fills the bottom of the bin excepting about two inches at either end to allow for expansion.

The steam must enter from the boiler at the highest side and the last pipe on the lower side should form a return for condensed water to the boiler. This pipe will of course be connected with the manifold at the farther end of the bin only. Each bin should be fitted up alike and the object of every third pipe being drilled with very small holes, not over 1-16 of an inch, is to admit of steam direct escaping into the compost.

When these details are complete, run your main flow steam pipe high enough above the boiler to prevent water driving through it over to the center. Opposite the division of the two bins put a tee with nipples and two stop-cocks, one for each bin. From this connect with the head of each of the two manifolds, and where the returns leave the bin they should have stops also, running the two into one and return direct to boiler, leaving a drop directly under the boiler to form a trap. Of course air-cocks will be needed also on each manifold at the highest point. This completes the arrangement so far as boiler and piping, but provision must be made to cover the bin as nearly air tight as possible when filled with soil, which cooks best if fairly moist. When the first bin is filled nearly level full turn on the steam with a pressure of not less than 50 pounds and maintain it for at least 1½ hours. Meantime fill the other bin and get it all ready, and by the time the first is thoroughly cooked the second will be ready to have the steam turned into it. Then uncover the first, empty it. I would not advise you to attempt to stand on the soil or you may have to dance a lively jig. Thus you can fill, cook and empty

five or six bins per day, but it would be useless to attempt it unless you maintain a full head of steam, at least 45 to 50 pounds pressure, as these extremely minute animals are very tenacious of life. By the best authorities it is proven that nothing short of 225° will kill them when protected in the soil, and to make sure work 235° of heat is necessary; rather warm treatment, but absolutely necessary.

JOHN N. MAY.

LOUISVILLE, KY.—Fred Haupt has made an assignment. The trouble is due to Mr. Haupt having become security for his brother, as his own business has been in good shape.

**CANNAS** NEW AMERICAN  
Finest in the World  
Our Novelties for 1898

- DUKE OF MARLBORO, darkest crimson,..... Per 100 \$30.00
  - DUCHESS OF MARLBORO, only pure pink, 30 00
  - TOPAZ, only absolutely large pure yellow, 50 00
  - LORRAINE, pink, edged white, fine,..... 30 00
  - MAIDENS BLUSH, delicate flesh color,..... 15 00
  - GOLDEN PEARL, yellow, nearly double,..... 30 00
  - CUBA, finest and largest gilt edged,..... 40 00
  - GLORIOSA, very dwarf, March delivery,..... 12 50
  - PHILADELPHIA, glowing crimson,..... 15 00
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  - KLONDIKE, only large pure orange,..... \$2 50
- Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

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To Messrs A. Blanc & Co.  
Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Crimson, etc. Signed CH. MOLIN.  
Lyon, France, Jan. 3, 1898

**ASPARAGUS SPRENGERI**  
Fine plants in 6-inch pots, ready for 8-inch \$5 per 12.

**AMARYLLIS.....**  
Veltch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

**CALLAS**  
Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each.

**DAHLIAS**  
11 prizes out of 22 at the last Dahila exhibition. First prize Dahila, GILT EDGE, \$15 per 100. Send for special list

A. BLANC & CO., Philadelphia, Pa.

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**LILIUM AURATUM.** Per 100 Per 1000  
7-9 inch..... \$3.75 \$35.00  
9-11 inch..... 5.00 45.00

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7-9 inch..... 4.75 40.00  
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7-9 inch..... 6.50 55.00  
9-11 inch..... 7.50 65.00

**BEGONIAS TUBEROUS ROOTED...**  
Single, separate colors..... 3.50 30.00  
Double, "..... 9.00

**TUBEROSES....**  
True Excelsior Pearl.  
"Hallock strain" First size..... 1.00 7.50

**GLOXINIAS**..... Per doz., \$5; per 100, \$5.00

**CALADIUMS.....**  
Fancy leaved choice bulbs, per doz., \$1.75; per 100, \$12.00.

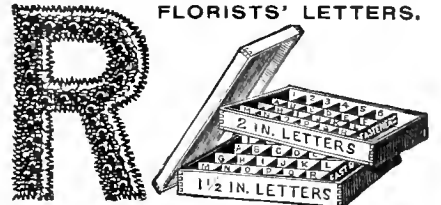
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Cured and sound bulbs with live center shoots. Doz. 100  
5 to 7 inches in circumference, \$ 40 \$2 50  
7 to 9 " " " " " 65 1 50  
9 to 12 " " " " " 1 00 6 50  
50c per 100 less on 7 9 inch and 9-12 inch sizes if shipped from New York.

**GLADIOLUS XXX Florists Mixture**  
Per 100 ..... \$1.75 Per 1000 \$15.00

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MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 ½ or 2-inch size, per 100, \$5.00.  
Script Letters \$4. Pasteur with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,  
84 Hawley St., BOSTON, MASS.

**John Conley & Son,**  
Manufacturers of  
**TIN FOIL**  
2 AND 4 DOMINICK STREET,  
New York.

**Tobacco** STEMS  
DUST  
EXTRACT

**BOTTOM PRICES.**  
VAUGHAN'S SEED STORE,  
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**FAXON'S "WHITE HOUSE" PANSIES.**  
The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.  
In Trade Packets at \$1.00 each.  
M. B. FAXON,  
Lock Box 1528, BOSTON, MASS.  
Correspondence solicited.

**Pansies Worth Raising.**  
GOOD PLANTS, \$2.50 per 1000, or \$1.50 per 500.  
LARGE PLANTS, \$4.00 per 1000, or \$2.50 per 500.  
BLOOMING PLANTS, \$1.50 per 100.  
SEED, as usual. CASH WITH ORDER.  
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**..PANSIES..**  
200,000 in cold frames of the Jennings finest strains; all extra No. 1 plants; large size, ready to bloom, \$5.00 per 1000; extra medium size for cold frames, \$4.00 per 1000. Extra 75c per 100 by mail.  
...SEED...  
of the finest strain, \$1.00 per pkt. of 3000 seed; \$6.00 per ounce.  
Cash with order. E. B. JENNINGS,  
Lock Box 254, Southport, Conn.  
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**STANDARD CANNAS**  
STRONG ROOTS.  
500 Mme. Crozy..... \$5.10  
300 Alphonse Bouvier..... 3.70  
300 Florence Vaughan..... 3.00  
500 J. D. Cubos..... 3.00  
150 Ch Henderson..... 3.00  
150 Paul Marquant..... 3.00  
150 Stella..... 4.00  
Cash with order. ERNST MAAG, Quincy, Ills

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Chicago.

The shortage of good Brides and Bridesmaids still continues. First-class long stemmed Beauties are scarce, but good short stemmed Beauties are plenty, and bring only about the price asked for Maids or Meteors. Tulips are very much improved in quality, and are quite plenty; fancy pink sells well, other colors very slow. Dutch hyacinths are on the market in all colors. We now have a full line of all bulb stock and unless an outside market can be found for it, the prospect is that it will be sent in faster than it can be disposed of.

Retailers report trade quiet. The very cold weather we have experienced for the past three or four days has had a very depressing effect upon the retail trade, especially in plants.

W. E. Lynch had on exhibition this week a vase of nearly pure white carnations, a sport from Tidal Wave, that is without doubt a good carnation; if the sport has the constitution and productive qualities of the parent plant it will find a place in the market. It was grown by Otto Hansen, of Galewood, Ill.

Mr. Arnold Ringer returned last Sunday from a trip through the East; he reports business good, and prospects very encouraging. Trade has been good this winter, and prices better than they have been for the past three years.

Mr. Ellis, of Ellis & Pollworth, of Millwaukee, visited Chicago this week.

It is reported that F. J. Foster, of the Krebs Floral Co., St. Louis, has severed his connection with that firm.

G. H. Pieser, of Kennicott Bros. Co., will start on a trip through the South, February 10.

The greenhouse of Felke & Mueller, of Wilmette, Ill., caught fire Wednesday night about seven o'clock. Felke & Mueller have between forty and fifty thousand feet of glass. The boiler shed and over one-half of the houses were totally destroyed, together with all the stock in the part which was not burned. It is impossible to estimate the damage done to the heating plant. Mr. Mueller, Sr., was badly burned about the face and eyes, and it was feared at the time fatally injured. He is somewhat easier this morning, and it is hoped he will recover, though it is doubtful if he regains his sight. The loss is estimated at about \$20,000 on the greenhouses and stock. No insurance.

Chrysanthemums in Low Greenhouses.

In answer to "Subscriber," I would advise him to build a bench on the ground rather than plant chrysanthemums in the solid bed. One is then better able to control the root action and keep them dwarf, which seems to be an important point with him. As there is a great difference in the height of the several varieties it would be well to consult some reliable catalogue and plant only the varieties of dwarf habit.

The difference between crown and terminal bud is the crown bud is the first one to make its appearance and comes sometimes in July or August and is of little value. It should be rubbed out, allowing one of the shoots, which comes by its side to grow on, which in time will form another bud surrounded with a number of other buds, the main one being the terminal and in most cases the best one to select for your flower.

For "Subscriber" who has such little headroom to grow his plants I would advise planting fine struck cuttings.

C. W. JONES.

**M. RIGLE & CO.**  
 25 N. Fourth St. Philadelphia, Pa.

Importers and Manufacturers of  
**FLORISTS SUPPLIES**

**Jadoo Fibre and Jadoo Liquid**

are to-day being sold by the leading SEED HOUSES and are used by prominent GROWERS and FLORISTS.

You Cannot Afford to Grow Plants Without Them

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Send for particulars and be convinced

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**HAMMOND'S TOBACCO EXTRACT.**  
 THE OLD ORIGINAL.

GEO. S. OSBORN  
 OLD TOWN FARM GREENHOUSES  
 FOR SAID-GEAN & ATWOODS

HARTFORD, CONN., Jan. 25, 1898.

Hammond's Plant & Slug Shot Works, Elstkhil on Hudson, N. Y.

Gents: I send check for amount of enclosed bill, and think I shall need more of the Tobacco Extract for the trial. SO FAR AS CAN BE JUDGED IT IS THE BEST EXTRACT I EVER HAD. Let it come by freight at once as we have two houses longing for a dose. Yours truly, GEO. S. OSBORN.

SOLD BY WHOLESALE SEEDSMEN.

**DAHLIAS** WHOLE ROOTS.

Fine collection of varieties including Wm. Agoew, Nymphaea, John Bragg, Oban, Zulu, Beauty of Brentwood, etc., etc. Our selection, twenty varieties to a thousand, \$50.00. Purchaser's selection, twenty varieties to a thousand, \$60.00.

**Wm. H. Moon Co.**  
 Glenwood Nurseries MORRISVILLE,  
 Bucks Co., PA.

**Seed Stores and Flower Stores**

Can profitably handle our Packages of Plant Food. Attractive, take little shelf room. Valuable booklet free. Good profits.

**The WALKER FERTILIZER CO.**  
 Clifton Springs, N. Y.



**Cincinnati.**

Business the past week was but moderate, nothing of importance having occurred here of late with the exception of some large funerals. The scarcity of roses reported last week still continues. Carnations are in good demand and prices stiffened up a little the last of the week.

George and Allen are still in the lead, with valley, which finds a ready sale. This same firm is bringing in some good Keizerskroon and La Reine tulips. Mr. J. A. Peterson has a grand display in his store window. The background in one of the windows is azalea intermixed with camellia, the front arrangements consist of several specimen plants of cattleyas and adiantums.

A special meeting of the Cincinnati Florists' Society was called for Saturday, February 5, to make final arrangements in regards to the Chicago carnation convention. It is to be hoped that a good delegation will attend. All florists of neighboring towns interested, may apply to H. Schwarz, Price Hill, Cincinnati, for particulars.

A little stranger made its appearance at the home of Mr. and Mrs. E. G. Gillett on Thursday, January 27. Ed. was all smiles at his place of business and said "its a girl"; mother and baby are doing well. Recent visitors: Messrs. J. M. Gasser, of Cleveland and W. G. Matthews, of Dayton, Ohio. **H. SCHWARZ.**

**Buffalo.**

There seems to be only the same old story to tell in regard to business. It has had its usual ups and downs—mostly downs. No startling events have occurred to act as a boom.

Some talk is heard in regard to a flower show for next fall. There is a small amount in the treasury of the Florists' Club that might be devoted to such a purpose, and as "The first duty of the majority is to reduce the surplus" the club will probably vote to hold a show.

Rumors are afloat to the effect that there is to be an uptown movement on the part of some of our store men. It is reported that Scott has already secured a store in a good location above Chippewa street. His old familiar store has long been too small for the business and the move has been expected. Who next?

Travelers have been rather scarce during the week. Those noted were Messrs. S. Skidelski, W. J. Boas and Max Beatus. **C.**

**Du Quoin, Ill.**—The Du Quoin Floral Co. have started in business with one plant house 18x50, heated by hot water. They will build rose and carnation houses in the spring. The company is F. W. Gross and J. W. Canaga.

**Grand Rapids, Mich.**—Edward Mlich, florist, has started in business at the corner of Fish and Cleveland avenues.

**Cut Flower Price Lists Received.**

We are in receipt of cut flower price lists from the following firms: W. A. McFadden, Cincinnati; Holton & Hunkel Milwaukee; W. F. Kasting, Buffalo.

**FLORISTS' MUTUAL FIRE INSURANCE ASS'N**

Application Blanks and Prospectus Ready....

Write now. Delays are dangerous.

**W. J. VESEY, Sec'y, - Ft. Wayne, Ind.**

**Wholesale Flower Markets**

CINCINNATI, Feb. 3.

Roses, Beauty select	30.00@40.00
" " medium	15.00@25.00
" Brides	5.00@7.00
" Bridemaids	5.00@7.00
" Meteora	6.00@8.00
" Perlea	4.00@5.00
Carnations	1.50@2.00
" fancy	3.00@4.00
Valley	2.00@3.00
Romana	2.00@3.00
Narcissus	4.00
Daffodils	5.00
Violets	.75@1.00
Harrisli	12.50
Callas	10.00
Tulps	3.00@4.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, Feb. 3.

Roses, Beauties	15.00@50.00
" Meteors	5.00@8.00
" Brides, Bridemaids	5.00@8.00
" Perlea	4.00@5.00
" Wootton	4.00@5.00
" La France	5.00@10.00
" Kaiserline	4.00@10.00
" Carnot	5.00@12.00
Carnations	2.00@4.00
Violets, California	.30@.50
" single	.20@.25
Valley	3.00@4.00
Harrisli	10.00@12.50
Callas	8.00@12.50
Tulps	2.00@3.00
Narcissus, Romana	2.50@3.00
Smilax	12.50@15.00

BUFFALO, Feb. 3.

Roses, Beauties	20.00@75.00
" Brides, Bridemaids, Meteors	6.00@12.00
" Perlea	4.00@5.00
" Niphetos	4.00@6.00
" Kaiserin, Mermets	6.00@12.00
Carnations extra	2.50@3.50
" ordinary	1.00@1.50
Valley	4.00
Violets	1.00@2.00
Romana	2.00@4.00
Harrisli	15.00@20.00
Smilax	12.50@15.00
Adiantum	1.25@1.50

MILWAUKEE, Feb. 3.

Roses, Beauty	15.00@40.00
" Brides, Bridemaids	4.00@8.00
" Perlea	3.00@6.00
" Met-sora, Bellea	4.00@8.00
Carnations	1.00@2.00
Violets	1.50@1.00
Romana	2.00@3.00
Valley	3.00@4.00
Freeclas	2.00@3.00
Callas, Harrisli	10.00@12.50
Smilax	10.00@12.50

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST....  
495 Washington St., Buffalo, N. Y.  
Also Dealer in Florists' Supplies and Wire Designs

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**"Rosebank"**

NEAVE BUILDING, CINCINNATI.

Producers and Shippers of every description of High Class Floral Supplies.

**CYCLAMEN PLANTS. JARDINIERE FERNS.**

Quotations issued weekly, forwarded on request.

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**C. A. KUEHN, Wholesale Florist,**

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

**MOUND CITY CUT FLOWER CO.**

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**C. W. WORS**

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.....ROSES, and a full line.

Headquarters for the South West.....

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**H-L-SUNDERBRUCH CO**  
WHOLESALE COMMISSION FLORISTS  
4th and WALNUT STS. CINCINNATI, O.  
CONSIGNMENTS SOLICITED  
SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

**HOLTON & HUNKEL CO.**

SUCCESSORS TO

The Wisconsin Flower Exchange.

Fresh Cut Flowers, Florists' Supplies

Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 874.

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COMPLETE LINE OF SUPPLIES

WIRE WORK

WE CAN MAKE

IMPORTERS OF BULBS

PHONE 1275 BOX 75

ALWAYS ON HAND FINE STOCK OF CUT FLOWERS

ELLIS & POLLWORTH MILWAUKEE WIS.

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

# E. H. Hunt

THE "OLD RELIABLE" FOR

WHOLESALE

## CUT FLOWERS

Hunt's Flowers  
Go Every where

76 Wabash Ave., CHICAGO.

# Vaughan, McKellar & Winterson

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FLORISTS SUPPLIES  
FLORISTS SEEDS  
SPRING BULBS

## Cut Flowers

All the leading varieties in Carnation Rooted Cuttings

Best varieties of Young Roses in 2 1/2-in. Pots.  
Fine well cured Pearl Tuberoses Bulbs, per 1000.....\$ 7.50  
Extra fine mixed Gladioli Bulbs, per 1000..... 12.50  
Fine mixed Gladioli Bulbs, per 1000..... 7.50

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# REINBERG BROS.

WHOLESALE

## GROWERS OF CUT FLOWERS.

500,000 FEET OF CLASS.

We can fill all orders on short notice with all leading varieties of Roses and Carnations

We ARE Headquarters for fine AMERICAN BEAUTIES  
Give us a trial and convince yourself.

Salesroom, 51 Wabash Ave., CHICAGO.

# W. E. LYNCH,

Consignments  
Solicited.

## CUT FLOWERS.

All Florists' Supplies.

19 & 21 RANDOLPH STREET,

Fine Stock a Specialty. CHICAGO.

# Wholesale Flower Markets

CHICAGO, Feb. 4.

Roses, Beauties . . . . . per doz. 2.00@3.00	4.00@ 8.00
" Brides . . . . .	4.00@ 8.00
" Meteors, Bridesmaid, Kaiserin. . . . .	3.00@ 5.00
" Perle, Goutiers. . . . .	5.00@ 10.00
" La France, Testout . . . . .	1.00@ 2.00
Carnations, common . . . . .	2.00@ 5.00
" fancy . . . . .	.50@ .75
Violets . . . . .	2.50@ 3.00
Narcissus, Romans . . . . .	10.00@ 12.00
Harriell, Callas . . . . .	2.00@ 5.00
Valley . . . . .	1.00@ 5.00
Tulips . . . . .	2.00@ 3.00
Von Slon . . . . .	4.00@ 7.00
Hyacinths . . . . .	1.00
Adiantum . . . . .	10.00@ 15.00
Smilax . . . . .	50.00@ 75.00
Asparagus . . . . .	

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**WHOLESALE CUT FLOWERS**  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY, 88 WABASH AVE. CHICAGO.

# A. L. RANDALL

Wholesale Florist

DON'T FORGET that we are at the old number,  
126 Dearborn St., Chicago.

Write for special quotations on large orders.

# E. C. AMLING,

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## COMMISSION & FLORIST.

51 WABASH AVENUE,

Consignments Solicited. CHICAGO.  
Prompt attention to shipping orders.

# Bassett & Washburn,

Successors to J. B. DEAMUD & CO.,

## CROWERS and WHOLESALE DEALERS in CUT FLOWERS,

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HEADQUARTERS FOR AMERICAN BEAUTIES.

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## HIGH GRADE CUT FLOWERS,

PACKED RIGHT,

so they will reach you in just as good condition as they reach us.

WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.  
Mention American Florist.

Always mention the American Florist when you order stock.

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111 West 30th Street, NEW YORK.

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51 and 53 Wabash Ave.,  
J. B. DEAMUD, Mgr. CHICAGO.

## CHOICE CUT FLOWERS.

Roses in variety.

Carnations THE BEST  
...IN THIS MARKET.

GENERAL LINE OF SHIPPING FLOWERS.

WILD SMILAX.



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## WHOLESALE CUT FLOWERS AND FLORISTS' SUPPLIES.

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Prompt Attention to all Orders

# ROGERS PARK FLORAL CO.,

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## CUT FLOWERS,

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DAYTON, OHIO.

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Company's

# DIRECTORY of FLORISTS, NURSERYMEN and SEEDSMEN

of the United States and Canada is now undergoing a thorough revision, and the sixth edition will be ready early in 1898.



# MacDONALD & McMANUS

*Supply Orchids every day.*

Only House in New York handling Extra Fancy Stock for Special Occasions.  
Telephone 2778--38th Street. 50 West 30th Street, NEW YORK CITY.

**SAMVEL S. PENNOCK**  
WHOLESALE FLORIST.  
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**FRED. EHRET,**  
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No. 1403 Fairmount Avenue,  
Telephone, Long Distance. PHILADELPHIA.

CONSIGN TO BUY FROM  
**M. A. HART,**  
Commission DEALER IN Cut Flowers,  
113 WEST 30TH STREET,  
NEW YORK CITY.  
THE BEST MARKET IN NEW YORK.

**TRAENDLY & SCHENCK,**  
**Wholesale Florists,**  
Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.  
38 West 28th St., and Cut Flower Exchange,  
Tel. 961 18th Street. NEW YORK CITY.

## Wholesale Flower Markets

NEW YORK, Feb. 2.	
Roses, Beauty.....	15 00@65.00
" Br. des. Bride'smaid.....	2 00@ 10 00
" Testout, Carnot, Meteor.....	4 00@ 12 00
" Morgan, Cuslin.....	2 10@ 5 00
Carnations.....	1 00@ 2 00
" fancy.....	2 50@ 4 00
Valley.....	2 00@ 4 00
Mignonette.....	2 00@ 6 00
Violets.....	4 00@ 1 00
Harrisli.....	8 00@ 10 00
Tulips.....	1 50@ 3 01
Smilax.....	8 00@ 10 00
Cattleyas.....	15 00@ 35 00
Daffodils, Jonquills.....	1 00@ 3 00
BOSTON, Feb. 2.	
Roses, Beauties.....	20 00@75.00
" Perle, Niphotos.....	2 00@ 4 00
" Bride, Bride'smaid, Morgans.....	4 00@ 12 00
" Carnot Meteor.....	6 00@ 12 00
Carnations, ordinary.....	1 00@ 2 00
" fancy.....	2 00@ 3 00
Valley, Daffodils.....	3 00@ 4 00
Violets.....	3 50@ 7 50
Hyacinths, Narcissus, Freesia.....	7 50@ 2 00
Tulips.....	3 00@ 4 00
PHILADELPHIA Feb. 2.	
Roses, Beauties, per dozen.....	3 00@8.00
" Teas, firsts.....	7 00@10 00
" select.....	12 00@15 00
Carnations.....	1 50@ 3 00
Valley.....	3 00@ 4 00
Violets.....	4 00@ 1 00
Narcissus.....	2 50@ 3 00
Hyacinths.....	2 00@ 3 00
Harrisli.....	10 00@ 12 00
Daffodils.....	4 00@ 5 00
Tulips.....	4 00

**John I. Raynor,**  
49 WEST 28th STREET,  
NEW YORK.

**SPECIAL EXTRA STOCK OF**  
AM. BEAUTY, METEOR,  
BRIDESMAID, BRIDE.  
**Record Breaking Carnations**  
ALL THE YEAR ROUND.

**American Beauty**  
and all other choice Roses in unexcelled quality.  
**Carnations, Mignonette, Cattleya and Valley.**  
**THOS. YOUNG, Jr.,**  
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WHOLESALE  
**FLORIST,**  
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Roses shipped to all points. Price list on application.

**Rose Growers**  
Will find a good market and good returns for their stock at....  
**JULIUS LANG'S**  
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**Edward C. Horan,**  
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**WHOLESALE • FLORIST.**  
Careful Shipping to all parts of the country.  
Price list on application.

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**WELCH BROS., PROPRIETORS.**  
Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.  
THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

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near 6th Ave. Elevated R. R.  
**BEAUTIES AND VIOLETS, SPECIALTIES.**  
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**JAMES M. KING**  
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**CUT FLOWERS.**  
Good Money for your Flowers.  
Good Money for your Money.  
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119 and 121 West 23d Street,  
112 and 114 West 24th Street,  
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CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

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FLORIST'S SUPPLIES.  
**FLORISTS' VASES.**  
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**Wholesale Florists**  
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WHOLESALE COMMISSION,  
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**WM. C. SMITH,**  
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And Florists' Supplies

88 WABASH AVENUE,  
CHICAGO, ILL.

Jobbers in all kinds of  
.....desirable

Long Distance  
Telephone Express 466....

ROOMS 22 and 23

## Florists' Supplies

It is not what you pay for the extra select stock *✿* but what the extra select stock pays you.  
Bear in mind that the best is the most economical.  
It pays to trade at headquarters and the greatest house in America.

WE WILL HANDLE THE ENTIRE OUTPUT OF THE KLEHM NURSERIES.

# 70,000 Novelty Tulips

This is a sure seller; once you try it you will never be without them  
You can order them from any broker as we sell to them all. Price **5¢**

PRICE LIST SUBJECT TO CHANGE WITHOUT NOTICE.

P. AND O. AT COST.

	Per 100
Am. Beauties, medium.....	\$20.00
Am. Beauties, fancy, fair length .....	35.00
Beauties, long .....	50.00
Meteors, extra select.....	\$7 to 9
Brides, Maids, extra select .....	\$7 to 9
Meteors, Bride, Maid, good average, .....	\$4 to 6
Perles, extra select .....	\$4 to 6

	Per 100
Roses, our selection.....	\$4.00
Callas, Harrisii.....	12½ to 15
Romans, Narcissus.....	\$2 to 4
Adiantum .....	\$1 to 1.25
Asparagus.....	per string, 50c to 65c
Galax.....	\$1.50 per M.
Common Ferns.....	2.00 per M.

Common Ferns 500 sold at 1000 rates.

	Per 100
Violets.....	\$1 to 1.25
Valley, our specialty—the best.....	\$2 to 4.00
Smilax, fine.....	\$10 to 12½
Carnations, extra select.....	\$2.00
Carnations, white.....	\$2 to 3
Carnations, good average stock.....	1½c to 2
Carnations, our selection.....	\$1.00

Growers wishing to consign flowers to Chicago Market consult us before shipping elsewhere.

THIS YEAR'S CUSTOMERS MUST BE OURS NEXT YEAR.

**FINEST VALLEY THAT GROWS!**

Asparagus Always on Hand.

All Flowers in Season at Lowest Market Rates.

Store open until 6:30 P. M., week days, until Noon  
Sundays and Holidays.

We always ship extra select or high-grade goods  
unless otherwise ordered.



**THE VALUES WE GIVE ARE OUR  
BEST ADVERTISEMENTS....**

**Montreal.**

A VISIT TO LACHINE.—MEETING OF THE CLUB.—ELECTION OF OFFICERS —BANQUET.—SILVER CUP PRESENTED TO GEO. ROBINSON.

Your correspondent took advantage of a fine day last week and drove out to Lachine to visit a couple of our large florists' establishments which are situated in this fast growing town. Mr. Colin Campbell's place was the first visited. We were fortunate in finding the proprietor at home, and were shown through his extensive establishment by that gentleman. Mr. Campbell grows almost everything required for his retail store on St. Catherine street in the city, and contrary to the usual condition of things where such a variety of lines are attempted, everything is in good condition. A large house which was full of chrysanthemums a couple of months ago is now planted with sweet peas; these were transplanted from the seed boxes in rows about eighteen inches apart, and the plants about nine inches apart in the rows with a string to each to the roof.

A house of *Asparagus plumosus* was exceptionally good, also a house of smilax; a house of palms and ferns looked well. A large house full of azaleas, primulas, cyclamens, *Harrisii* and longiflorum lilies, etc., was well worth seeing.

Mr. Joseph Bennett's place was next visited, the proprietor had just left for the city, but we were very courteously taken through the place by Mr. Smith, the foreman. Everything was found in apple pie order as usual, in fact the neatness and order all over the establishment was very marked, reflecting great credit on proprietor and employes, the motto here is "A place for everything, and everything in its place." This establishment like Mr. Campbell's is devoted to growing everything required for Mr. Bennett's store on St. Catherine street.

Two houses are devoted to roses, all of which look remarkably well, the principal varieties noticed were Meteor, Sunset, Bridesmaid, Bride, Morgan and Beauty; Morgan being exceptionally fine, and apparently quite "at home" under the treatment it receives. A couple of houses of carnations are equally good, Albertini, Scott and Daybreak in pink are very strong and producing large quantities of bloom now; McGowan is the principal white, and is also very strong; in red Garfield, Jubilee and Meteor are perfect. No rust was noticed. A large stock of palms grown from seed, in the various stages from the seed box to the large decorative plant was noticed. A specialty is made of small ferns of which several thousand are grown annually from spores. A bed of sweet peas was noticed which ought to be blooming well for Easter.

The Montreal Gardeners' and Florists' Club held their annual election of officers last night, President Walsh presided; there were about fifty members present. Mr. Walsh positively declined nomination, as he had served two years, and there being an unwritten law that the same man must not occupy the position for more than that period. Mr. Alfred C. Wilshire was nominated and elected by acclamation. Mr. George Robinson was re-elected first vice-president and W. Whiting re-elected second vice-president; for treasurer, Mr. Walter Wilshire was elected to replace his brother, Alfred C., who had occupied that position for about four years. Mr. Fred. Bennett was re-elected secretary and Wm. Harobin his assistant.

BEAVER.

# Palmer's Hot Bed Mats

**FROST PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

## Indestructible, Cheap and Warm

WILL not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

### MADE IN FOLLOWING GRADES:

No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

Size 40x76 inches, 50 cents each.  
" 76x76 " 75 " "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.

Size 40x76 inches, \$0.75 each.  
" 76x76 " 1.00 "

Made any length, 76 inches wide, at 16 cents per running foot.

No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.

Size 40x76 inches, \$1.00 each.  
" 76x76 " \$1.25 to \$1.50 each.

Made any length, 76 inches wide, at 20 cents per running foot.

That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.

PATENT APPLIED FOR.

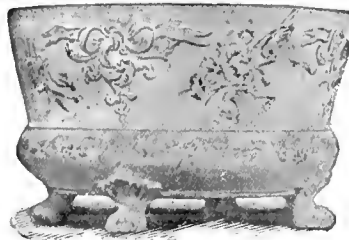
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Seasonable Specialties:

**CYCAS WREATHS. MOSS WREATHS.**

**FERNERIES AND JARDINIERS:**

Norman Style in Sprays, Tinted and Delft.  
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Milan, in Sprays.

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The largest and best stock in America.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

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Mention American Florist.

## HARDY CUT FERNS

\$1.00 Per Thousand.



FANCY

DAGGER

Do not order any ferns unless you are willing to pay this price as my stock is very limited and I have hardly enough now to carry my old stand-by customers to Easter.

**L. B. BRAGUE, Hinsdale, Mass.**

FOR SALE CHEAP.

**GLASS** for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. **THE REED GLASS & PAINT CO., 466 W. Broadway, NEW YORK.**



Never Fail to say "saw your ad. in the Florist,"

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. R. CLARK, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

DES MOINES, IA.—The Iowa Seed Co. report as follows: "We to-night figured up the number of retail mail orders received and are surprised to find that we have received 60% more orders than during January, 1896, and 89% more than during January, 1897. Catalogue was mailed about the same time as previous years, and we know no reason for the change except that there is a better feeling among the people, and believe that it augurs well for a profitable season.

It is reported that the Department of Agriculture has given the Henry Phillips Seed and Implement Co. a supplementary order amounting to about \$15,000. This expenditure in connection with some foreign purchases is understood to exhaust this year's appropriation.

Continued drouth and cold weather discourages the California seed growers.

Ex-Secretary Morton on Free Seed Distribution.

Under the old system all the dead, ungerminative refuse of the seed dealers of the country was sold to the Department, and there packed and labeled at an expense generally equal to, and often more than, the cost of the seed.

Under the new method the seedsman who has the contract must put his own name on each packet. That fixes the responsibility for the quality sent out. Moreover, under the new system there is scientific and vigorous inspection by a seed expert of the Department, by which the germinative and pure quality of the seed is determined. Under the old way the there was no scientific inspection.

But the old way and the new way are bad ways. There is no reason why the Government should distribute new or old varieties of vegetable and flower seeds gratuitously among the people any more than there is reason for its sending gifts of the eggs of improved poultry, or donations of bulls, boars, and stallions among the farmers of the United States. The practice is an outrage upon those who raise seed to sell. It is an outrage for the Government, under any sort of an administration, to put public funds into seed gratuities which are to be distributed in competition with the legitimate producers and dealers in the same article. But it is particularly, glaringly grotesquely inconsistent for a party which preaches "protection" against the importation of the products of "pauper labor," and which under the great revenue-rendering Dingley Bill, puts a big duty on foreign garden seeds, flower seeds, and bulbs bred in ignorance from the pauper beds of Europe, to back with the National Treasury, the indiscriminate distribution of seed, without price, seeds congressional seeds. Departmental, in competition with seeds to be sold by honest, hard working seed producers and dealers, who are not foreigners, but citizens of the United States whose infant industry asks for protection except from competition with the donations of a paternalistic Agricultural Advertising

Lessons With Plants.

Through the courtesy of A. C. McClurg & Co., of Chicago, we have received a

copy of this new botanical work by Prof. L. H. Bailey. The author departs somewhat from the beaten track, and supplies a series of interesting studies of plants and flowers, well and profusely illustrated. Such topics as "twigs and buds," "leaves and foliage," "flowers," "fructification," "propagation" and "behaviors and habits" are discussed entertainingly and accurately.

Catalogues Received.

Henry A. Dreer, Philadelphia, Pa., garden calendar; Ellwanger & Barry, Rochester, N. Y., trees, shrubs and fruits; Spaulding Nursery & Orchard Co., Spaulding, Ill., trees, shrubs and fruits; Storrs & Harrison Co., Painesville, O., seeds and plants; W. B. Cole, Painesville, O., fruits and flowers; Jno. D. Inlay, Zanesville, O., seeds and plants; Nanz & Neuner, Louisville, Ky., seeds and plants; John A. Bruce & Co., Hamilton, Can., seeds; Luther Burbank, Santa Rosa, Cal., fruits and flowers; Lewis Roesch, Fredonia, N. Y., trees, shrubs and fruits; Schlegel & Fottler, Boston, Mass., seeds, plants and bulbs; Dwight Seed Co., Reading, Pa., garden and farm annual; Wm. C. Babcock, Bridgman, Mich., fruits and plants; S. D. Woodruff & Sons, Orange, Conn., seeds; Sunset Seed & Plant Co., San Francisco, Cal., seeds; The Conard & Jones Co., West Grove, Pa., seeds and plants; Wm. Baylor, Hartland, Cork, Ireland, seeds; J. Lambert & Sons, Trier, Prussia, seeds; W. F. Allen, Jr., Salisbury, Md., fruits; Reasoner Bros., Oneco, Florida, plants, trees and shrubs, wholesale and retail; Sander & Co., St. Albans, England, florists' orchids; George C. Watson, Philadelphia, Pa., bulbs and roots, wholesale; The Morris Floral Co., Morris, Ill., plants, wholesale; W. Atlee Burpee & Co., Philadelphia, Pa., seeds, wholesale; F. Dorner & Sons Co., Lafayette, Ind., plants; E. G. Hill & Co., Richmond, Ind., plants; Wm. Swayne, Kennett Square, Pa., plants. 65.

E. F. C. YOYNG, Pres. V. P. SNYDER, Vice-Pres.  
JOS. D. REDLE, Sec'y. R. S. FOWLER, Treas.  
S. M. PEASE, Gen'l Mgr.

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Contract Growers of

Peas AND Beans

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JOBBER IN SEEDS.

Cape Vincent, N. Y.

**NIKOTEEN**

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABKURA DIP CO. CHICAGO.

Kill AND SAVE THE BLOOM! the Bugs! QUICKLY DOES IT.



RAFFIA

New consignment just arrived by Str. Maine. Having purchased on a very favorable market, and wishing to move the stock quickly, make the following special low quotations for prompt orders:

In bale lots (about 225 lbs.) at 8c  
100 lbs. or over at ..... 9c  
50 lbs. or over at ..... 10c  
25 lbs. or over at ..... 11c  
10 lbs. or over at ..... 12c  
Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

G. C. WATSON,

Juniper, below Walnut, - PHILADELPHIA.

**BURPEE'S SEEDS PHILADELPHIA.**

Wholesale Price List for Florists and Market Gardeners.

GLUCAS & BODDINGTON CO.

Importers and Exporters of

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NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

**PALM** Seed. FRESH ON HAND

PANDANUS UTILIS . . .	per 100	1000	3000
LATANIA BORBONICA . . .	\$1.50	\$12.50	
ASPARAGUS PLUMOSUS NANUS (true) . . .	.50	3.00	\$7.50
ASPARAGUS COMORIENSIS . . .	1.50	12.50	35.00

J. L. SCHILLER, 404 E. 34th St., NEW YORK CITY.

**FLORISTS FERTILIZER**

Made from VIRGIN NIGHT SOIL, by steam process. Soluble, quick in action. Complete Fertilizer. Suitable, quick in action. Combines all the Elements for Nutrition of Plants. Pleasant to handle.

STANDARD FERTILIZER CO. Inc.

1822 Filbert Street, PHILADELPHIA.

THE BEST FOR ALL Florists' **ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE** FOR SALE BY SEED STORES FOR FREE SAMPLES WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO. LOUISVILLE KY

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Newport, R. I.

Upon invitation of the Newport Horticultural Society, a large audience assembled on the 26th inst., at the society's hall to listen to a lecture delivered by Prof. H. J. Wheeler, Ph. D., of the Rhode Island Agricultural Station. The subject was upon the purpose of ascertaining the needs of particular soils, special manurial requirements of certain plants, investigations as to the substitution of soda for potash, and the action of lime upon the growth of various plants. Stereopticon views, showing experiments of the action of lime on crops, went to prove that lime was a benefit to most crops, while a few derived little benefit, and to a small percentage its use was injurious.

Prof. Wheeler advised the examination of land as to its requirements of fertilizers and lime, as land that has become acid or sour will be benefited by applying lime; and to test the acidity of land, place a piece of litmus paper into a piece of damp soil; if the paper turns red the soil is acid. Another test would be to stir some soil and a quantity of water in two glasses; let the water settle, and pour some ammonia in one glass; if it settles clear the soil is not sour, and needs no lime. He also gave much information as to fertilizers for certain soils.

After the lecture a vote of thanks was given Prof. Wheeler, and a short business meeting was held, when it was voted to give a ball on February 17, and an entertainment committee, consisting of Arthur Griffin, Robert Laurie, John Allan, Joseph Gibson and J. J. Butler were appointed to arrange for same.

The society will shortly issue its schedule for a chrysanthemum exhibition.

J. J. BUTLER.

Floral Belts.

One of the latest Paris fashions in relation to the use of flowers for personal adornment, says the *Gardeners' Magazine*, is the wearing of belts of flowers. The majority of the French ladies prefer belts made of Parma or Neapolitan violets, small roses, or pansies. The belt is completely covered with the flowers, which are sewn thickly together on a plain band of silk elastic, great care being taken to use the finest silk of exactly the same shade as the flowers chosen.

LE ROY, ILL.—L. A. Rice & Son, florists, will build another house 16x64.

THE ALBERT DICKINSON CO.  
DOMESTIC AND FOREIGN

GRASS SEEDS

FOR  
Parks, Tennis Courts, Lawns, &c.

In fancy 1 and 2 pound packages and bulk  
SPECIAL PRICES TO THE TRADE.  
CHICAGO, ILL.

SEEDS LAWN GRASS \$12.00 per 100 lbs.

Finest Quality Ever Offered (Retail at 30c lb.)  
J. CHAS. McCULLOUGH, SEEDSMAN,  
RECLEANER AND JOBBER GRASS SEEDS  
North-East Corner Second & Walnut Sts., Cincinnati, O.  
Send for Illustrated Catalogues.

Please mention the American Florist



CANNAS

WE offer an immense stock of Canna roots, all in perfect condition, strong roots, two and three eyes; strictly true to name and unmixed.

Flamboyant.....	100	100	Orlole.....	10.00
Francols Crozy.....	2.50	\$15.00	Papa Caona.....	5.00
Italla.....	4.50	40.00	Paul Bruant.....	2.50
H. A. Dreer.....	2.50		Paul Marquant.....	2.50
S. D. Cabos.....	3.00		Pres Carnot.....	3.00
Mixed Dwarf.....	2.00	15.00	Professor.....	4.00
John White.....	5.00		Queen Charlotte.....	2.50
Geoffroy St. Hillaire.....	3.00		Robt. Christie.....	15.00
Mme. Crozy.....	2.00	15.00	Rose Unique.....	4.00
Miss Sarah Hill.....	2.50		Sacy Stuart.....	2.50
Mrs. Fairman Rogers.....	12.00		Sunbeams.....	4.00
Mme. Montidore.....	5.00		Wm. Elliott.....	2.50
			Mixed Tall Growing.....	2.00
				100
				1000
				\$3.50
				2.50
				5.00
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5 PER CENT. DISCOUNT FOR CASH WITH ORDER.

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GROWERS OF  
**Peas, Beans and Sweet Corn**  
JOBBER AND DEALERS IN  
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Wholesale Catalogue Now Ready OF ALL KINDS  
18 N. Clark St., CHICAGO.

TUBEROUS BEGONIAS \$4.00 per 100. \* These are large, extra fine \* Bulbs, English strain.

LILIUM SPECIOSUM RUBRUM, \$3.50 per 100  
LILIUM SPECIOSUM ALBUM, \$4.50 per 100

Fine Nursery Stock such as Rhododendrons, Azaleas, Clematis, H. P. and Tree Roses. L. C. BOBBINK, Rutherford, N. J.  
Branch of The Horticultural Co., Boskoop, Holland.

NEW • GIANT • ESCHSCHOLTZIAS,  
"THE GOLDEN WEST."

50c pkt., 85 oz.  
New Giant Fancy Cosmos, six splendid varieties, separate, \$1 oz.; Giant Cosmos, splendid mixed, 65c oz.; Calliopis "California Sunbeams," \$1 oz. Special rates given on Cosmos in quantity. Apple Geranium, fresh, \$1 per 1000 seeds. New Large Flowering Zonal Geranium, \$2.50 oz.; Iponax, "Heavenly Blue," \$1 oz.; \$12 lb.; Laurustinus grandiflora, \$1 oz.; \$5 lb.; Zinnias, "New Curled and Crested," 50c oz.; \$5 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8 per 15 lbs.; Sanforthia elegans (Palm) 40c per 100 seeds, \$3 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

MRS. THEODOSSIA B. SHEPHERD,  
Ventura-by-the-Sea, Cal.  
Always mention American Florist.



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CYCAS REVOLUTA,  
PLANTS, SEEDS,  
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At a less price than it costs to grow them and expect good stock. Our prices are as low as good stock can be sold for.

White Cloud .....	
Gold Nugget .....	
Empress .....	
Mrs. Frances Joost .....	\$ 2.00 per doz.
Wellesly .....	10.00 per 100
Conch Shell .....	75.00 per 1000.
Psyche .....	
Painted Lady .....	
Daybreak .....	\$2.00 per 100; \$18.00 per 1000
Jubilee .....	3.50 per 100; 30.00 per 1000
Eldorado .....	
Meteor .....	\$ 2.00 per 100
Bridesmaid .....	15.00 per 1000

FLORA HILL.....	
C. A. Dana .....	
Victor .....	\$ 5.00 per 100
Morello .....	40.00 per 1000
Mayor Pingree .....	
Nivea .....	
Edith Foster .....	\$ 3.00 per 100
Jahns .....	25.00 per 1000

Alaska .....	
Scott .....	\$ 1.50 per 100
McGowan .....	12.00 per 1000
Triumph .....	
Mrs. McBurney .....	\$ 2.50 per 100
H. Keller .....	20.00 per 1000
Armazindy .....	

H. F. LITTLEFIELD, Worcester, Mass.

# EVELINA

Is the grandest mid-winter carnation extant. This is the unanimous opinion of all who have seen it growing and predict for it a grand future. ❄ ❄ Surpasses Wm. Scott.

Send your name and address and receive illustrated and descriptive price list of Evelina.

R. WITTERSTAETTER, Sedamsville, O.

### Pittsburg.

TRADE QUIET.—MEETING OF THE PITTSBURG AND ALLEGHENY CLUB.—ANTON KRUT OPENS A NEW STORE.—BLIZZARD.

The trade hereabouts remains in the same comparatively quiet state that it has been in since the holiday rush; some of the firms have had a pretty good trade in the social function line, but taken as a whole, business has been only fair. Stock is of good quality and plenty, with the exception of roses.

The Pittsburg and Allegheny Florists' and Gardeners' Club held their regular meeting on the night of January 27 with a fair attendance. The election of officers for this year resulted as follows: President E. C. Reineman; vice-president, George Osterle; treasurer, James Semple; secretary, T. P. Langhans; assistant secretary, E. C. Ludwig; executive committee, Gustave Ludwig, Theodore F. Beckert, P. S. Randolph. The annual dues were reduced to \$2, and a committee of five were appointed consisting of P. S. Randolph, Fred. Burki, John Bader, T. P. Langhans and President Reineman, to arrange to have something to present at the meetings that will be entertaining or instructive to the members so as to revive the waning interest, make the club what it ought to be—a real, live club—and which there is no good reason why it ought not to be. The committee is a good one, and it is hoped will be successful.

Mr. Anton Krut who has recently opened a florist's store on the South Side, was elected a member. Mr. Chas. T. Subert of the East End exhibited a very fine collection of the carnation Evelina, grown by R. Witterstaetter, Sedamsville, Ohio, and Messrs. Langhans & Co., a collection consisting of Anton, Chas. A. Dana, Flora Hill, and Jubilee from Eldorado and Philadelphia both collections elicited the warm commendations for beauty and durability. The club adjourned to meet February 10 with a four quartet at the start of a successful year with a fine crop of flowers.

At the meeting of the night of January 27 the following resolutions were adopted: In pursuance of the resolutions adopted on the 3d as a blizzard has been in the locality, and shipping is very slow, the committee Prof. Adolph Knapp will give a lecture on "Medicine in plants."

FLORA

# Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

## HOPP & LEMKE,

Pail P. O., E. GRAND RAPIDS, MICH.

# FIREFLY

Bright scarlet and *POSITIVELY RUST PROOF*. As productive as Scott. Rooted Cuttings Feb. 15th, \$10 per 100, \$75 per 1000. Send for descriptive list of Firefly and fifteen other novelties of '98, fifteen varieties of '97 and older standard sorts.

A RUST PROOF CARNATION FOR BUSINESS.

GEO. HANCOCK & SON, - GRAND HAVEN, MICH.

When writing mention the American Florist.

# NATHAN SMITH & SON

50,000 Flat-Grown GARNATIONS

Wholesale Florists

Specialties ❄ ❄ ❄ ADRIAN, MICH.

CHRYSANTHEMUMS

CARNATIONS ❄ ❄ ❄

AND VIOLETS. ❄ ❄ ❄

... CORRESPONDENCE SOLICITED ...

STRONG STOCK.		
Daybreak .....	per 100	per 1000
Scott .....	\$2.00	\$15.00
Rose Queen .....	2.00	15.00
Tidal Wave .....	1.50	12.00
Portia .....	1.50	12.00
Rob Roy (new) .....	10.00	
Julien .....	3.00	
Snow Queen .....	10.00	
Silver Spray .....	1.50	12.00
L. Metown .....	1.50	12.00
Eldorado, Meteor .....	2.00	
Flora Hill .....	5.00	
Triumph, Armazindy .....	5.00	
Pluto, new, and Uncle Sam, new, both varieties .....	10.00	

Cash with order. HENRY A NIEMEYER, Erie, Pa.

# NOW OR NEVER



Is your chance for getting your name and address into the 1898 Directory. Do not be too late. In addition to the arrangement of names by States and Towns, a complete alphabetical list of all names will appear. If you know a man's name and have forgotten his address, you can thus readily find it. This is an entirely new feature, and will double the value of the book.

SPECIAL EFFORTS are being put forth to make the New Directory (sixth edition) complete and reliable in every particular. Florists, Nurserymen and Seedsmen are all represented. Write for advertising rates.

AMERICAN FLORIST COMPANY,

324 DEARBORN STREET, CHICAGO.





Indianapolis.

The February meeting of the Florists' Club, held at Huntington & Page's seed store Tuesday evening, was largely attended. There was much indignant discussion about the party who claims to represent a prominent florist of the north side, that visits houses where a death has occurred and insists upon getting some funeral work to do, in fact, can hardly be got rid of until he has an order. Then when delivering the goods, will not leave without his money, which probably is done to avoid making his name known. A committee has been appointed to see to it that the newspapers bring the matter before the people. Thirty thousand tickets will also be printed which the florists will distribute among their customers, asking for their assistance in suppressing this disgraceful way of doing business.

Mr. Hatfield's paper on "Why do we ventilate," contained many good pointers and was listened to with much interest.

Robert McKain reported that the wife of the late pioneer florist of this state, Mrs. Allen Lloyd, had passed away. The three oldest members of the club, Messrs. Hatfield, Wiegand and Langstaff, were appointed a committee to represent the club at the funeral and provide a floral tribute. Both Mr. and Mrs. Lloyd were for many years honorary members of the state society, and were held in high esteem by all.

On the kind invitation of Huntington & Page every meeting hereafter will be held at their store. J.

Syracuse, N. Y.

Trade opened up rather quiet the beginning of the week, but large funeral orders and high school exercises made business quite lively the latter part.

Cut flowers of all kinds, with the exception of bulbous stuff, are very scarce, owing in a great measure to the extreme cold weather, accompanied with heavy snows now prevailing. Last Sunday was the coldest day this winter so far, the thermometer going down to 8° below zero, and at this writing a genuine blizzard is in progress. Both foliage and flowering plants have a downward tendency, the majority of sales, which are few and far between, being more for small, low priced plants, such as cinerarias, hyacinths, and primroses, than higher grade specimen plants.

Thos. Bishop, our general park superintendent, is able to be out and around again, after a long and painful sickness, resulting from blood poisoning.

ALPHA.

**ORCHIDS ORCHIDS**  
Growing and Importing of  
**ORCHIDS**

Our Specialty. Correspondence Solicited.  
LAGER & HURRELL, - Summit, N. J.

**HARDY**  
**Herbaceous Perennials**  
THE MOST COMPLETE STOCK IN AMERICA

PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,  
The Reading Nursery, - READING, MASS.

ESTABLISHED 1844  
When writing mention the American Florist

**PALMS and FERNS**  
The Largest Stock of PLANTS IN THE WEST  
**GEO Wittbold**  
1708 N. HALSTED ST  
**CHICAGO**



**Adiantum Farleyense**

BEAUTIFUL PLANTS,  
In 5-inch pots, at \$1.00 per dozen.  
**EDWIN LONSDALE, Wyndmoor,**  
Chestnut Hill, PHILADELPHIA, Pa.  
Money Order Office, Station H. Phila.

**BOSTON FERN**

*Nephrolepis Exaltata Bostoniensis.*  
Strong plants, 6-inch pots, \$1.00 each; \$12.00 per doz.; also three varieties of **PTERIS**, bushy plants, 5-inch pots, 20c each; \$2.40 per doz.  
**JOHN WELSH YOUNG,**  
....CERMANTOWN, PA.

**ROSE HILL NURSERIES,**  
**JUST ARRIVED!**

**Cocos Weddeliana** \$7.50 per 1000.  
5000 lots, \$36.00.  
**SIEBRECHT & SON, New Rochelle, N. Y.**  
New York Office, 409 Fifth Avenue.

**VERBENAS**

Rooted Cuttings, 25 of the leading kinds, 60c per hundred, free delivery. 1 will give good count. Cash with orders.  
**S. D. BRANT,**  
THE CLAY CENTER FLORIST. CLAY CENTER, KAS.

**FEBRUARY OFFER.**

Per 100  
**Alternanthera, Yellow, \$1.50; Red, \$2.00**  
**English Ivy, 3.00**  
**Begonias, 5 var., 3.00**  
**Oxalis Floribunda, 2.50**  
**Ceraniums, 16 Var., 2-in. pots, 2.50**  
**Pansy Plants, 1.00**  
CASH WITH ORDER

**JOS. H. CUNNINGHAM, Delaware, O.**

**GALAX LEAVES AND**

**LEUCOTHE SPRAYS...** Green and Bronze  
Of all wholesale florists or write the Introducer for free samples and information.....  
**HARLAN P. KELSEY,**  
150 Tremont Building, BOSTON, MASS.

**BRILLIANT GREEN AND BRONZE**  
**GALAX LEAVES,**  
For Decorating and all Florists' Designs  
**CHAS. H. RICKSECKER, Uxilla, Mitchell Co. N. C.**

**Do not fail**

To send your business card and have your name in the Directory for 1898.....

American Florist Company,  
321 Dearborn St., Chicago.

**Palms,**  
**Pandanus Veitchii,**  
**Ferns and Araucarias,**

IN ANY QUANTITY.

**JOHN SCOTT.**

Keap Street Greenhouses,  
.... BROOKLYN, N. Y.  
Mention American Florist.

**ROBERT CRAIG**  
**Roses, Palms**  
and Novelties in Decorative Plants.  
Market and 49th Street, PHILADELPHIA, PA.

**SPECIALTIES**

IN BEST VARIETIES.  
**ROSES,** from 3-inch pots.  
**CARNATIONS,** for fall delivery.  
**CHRYSANTHEMUMS.**  
**SMILAX.**  
**VIOLETS.**  
Prices low. Send for list.  
**WOOD BROTHERS, FISHKILL, N. Y.**

**Cocos** Healthy Growing Plants  
Samples for Stamps  
**Weddeliana...**

2 1/2-inch pots, \$6.00 per 100.

**VICTOR GARNATION**

From sand \$4.00 per 100;  
\$35.00 per 1000. The best pink on the market!

**B. REDFIELD**  
GLENSIDE, PA.

**Wanted for Cash**  
A few 1000 Gloxinia Bulbs in separate colors; also 2000 Boston Ferns, good mailing plants, 2 to 2 1/2 inch pots.  
**V. H. HALLOCK & SON, Queens, N. Y.**

**Bulbous Stock**

On own roots for hardiness and Pots, which are great sellers

1st size Dutch Hyacinths in 18 named varieties ..... \$1.00 per doz  
**TULIPS** Single and Double, Yellow, White, Pink and colored. Also .....  
Lily of Valley ..... 50c doz.  
**CROCUS** in 4 best colors, ..... 25c doz.  
Fine Bulb Pans ..... 2 1/2-in. 25c doz, 3-in. 35c doz.

Stock packed in sphagnum and will stand 5 days' journey. Cash with order....

**H. SCHILLER**  
877 W. Madison St., - CHICAGO, ILL.

**Chester County Carnation Society.**

The annual meeting of the Chester County Carnation Society was held January 29 in the office of Wm. Swayne. A hurried look around the houses before the meeting showed carnations in fine condition. Several benches of the seedling Empress are excellent, stems two and a half to three feet long with many flowers of very large size. A bench of Sloane showed a marked contrast in favor of plants potted and kept on benches indoors through the summer over stock grown in the field, the former being more productive and much stronger in stem.

President Styer being absent, the meeting was called to order by vice-president Edward Swayne. The election of officers resulted as follows: President, C. J. Pennock; vice-president, Edward Swayne; secretary, W. R. Shel mire; treasurer, C. S. Swayne. George M. Chandler, J. M. Palmer and N. L. Wilson were elected members. Percy Barnard asked if it was possible to rid a variety of rust in one year. He had seen what he considered a valuable new variety, but it was considerably affected with rust. He could keep the stock isolated, but did not care to buy if there was not a good chance of getting rid of the rust in one year. C. S. Swayne said he had cleared one variety of rust in one season. C. J. Pennock advised keeping clear of the disease, as Mr. Barnard did not now have other affected stock. Mr. Shel mire believed, contrary to the generally accepted theory, that a free use of water tended to keep down rust, and knew of two well known growers, one in Massachusetts and one on Long Island, who advocated the same method. Mr. Barnard knew of a grower who claimed that on two adjoining benches, where the plants were affected with this disease, only the soil of one bench was watered while in the neighboring one plants and soil were watered, with the result that the latter improved very much over the others.

A discussion on the cutting bench fungus, in which Messrs. Chandler, Shel mire and others took part, was followed by some comment on the American Carnation Society. Mr. Pennock suggested that the low membership roll was probably due in part to the very full reports of the proceedings of the society published in the trade papers, and that sufficient effort had never been made to increase the number of members. The fee for the registration of seedlings was strongly criticised by some members on the ground that it must tend to duplicate names, as many growers believed it to be right to record all names free, and a refusal to pay the fee would tend to place on the market some unrecorded varieties. The matter of certificates was by some members thought to be objectionable as now practiced and that a free exhibition without certificates would be preferable.

Secretary Shel mire exhibited the seedlings Cardinalis, scarlet, three and three-quarter inches in diameter; Emaline, deep pink, very large. L. Eastburn showed two white seedlings, Anna Eastburn and Mary Baker, with long stems and extra fine blooms. C. J. P.

**Carnations  
Chrysanthemums**

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts.

H. WEBER & SONS, - - - - - Oakland, Md.

**NEW GARNATION**  
**"Mrs. S. A. Northway"**

*A soft shell pink, developing to nearly pure white.*

**OUR MASTERPIECE.**

We shall commence shipping soon.

Orders booked **now** and filled in **rotation**. . . .

PRICE: PER 100, \$10.00. PER 1000, \$75.00.



**Newer Geraniums.**

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2 1/4-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.

**GENERAL LIST OF GERANIUMS.**

A superb stock in quality and variety of all the finest sorts, from 2 1/4-in. pots, named, \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.

**Fuchsias.**

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.

OUR PRICE LIST now ready, contains prices on many other plants.

SEND FOR IT.

**W. P. SIMMONS & CO., Geneva, Ohio.**

**W. P. SIMMONS & CO.**

Make the following statement to the readers of the American Florist.

As originators and introducers of "Silver Spray," "Tidal Wave," "Daybreak," and "Rose Queen,"

each of which has, we believe, proven even better than we claimed for them. We NOW say for 1898 that

**"Mrs. S. A. Northway"**

possesses all the good points that go to make up a first-class and profitable cut flower sort, and that we introduce it with even more confidence than we did the others.

It is an extra strong grower. It is free from rust or disease. It is a profuse bloomer. It has exceedingly strong stiff stems.

It is of exquisite form full and double.

The flower is high built, petals serrated.

The calyx does not burst.

It is delightfully fragrant (a quality lacking in many new ones.)

**NEW PINK CARNATION**

**MRS. FRANGES JOOST**

SEEDLING from McGowan x Wm. Scott; tested for four years. It is of an exceedingly pleasing color and proved itself an early and most prolific bloomer. It makes in a short time a fine bushy plant, and has the form and habit of what carnation men say make an ideal plant. Positively free from rust. The stem is strong and heavy enough to carry the large flower erect without tying of any sort. Calyx perfect; never bursts. It is a good keeper and a good shipper. You will make no mistake by trying a few. Rooted cuttings ready now. All orders filled in rotation. As the sale of the stock of this Carnations will be limited, it is advisable to order early if you want any. Satisfaction guaranteed.

Price, \$2 per doz.; \$10 per 100; \$75 per 1000.

CASH WITH ORDER.

**C. BESOLD, MINEOLA, Long Island, N. Y.**

**THREE MONEY-MAKING CARNATIONS.**

TESTED AND PROVED WORTHY.

**Roper's May Whitely**

Daybreak Color, Fragrant, Free....

...and **Mayor Quincy**

Rooted Cuttings ...Ready Now

The Improved Nicholson. Per 100, \$10; per 500, \$35; per 1000, \$50

**Tailby's Wellesley**

Brilliant Scarlet, Grand Constitution. Per 100, \$10; per 1000, \$75.

**GEO. A. SUTHERLAND,**

Selling Agent, 67 Bromfield St., BOSTON, MASS.

When writing mention American Florist.

**Carnation and Violet Cuttings.**

Answering "Subscriber," Philadelphia: Carnations are best rooted in a coarse clean sand, in a cool, airy house without bottom heat. No doubt they can be rooted in soil if proper care is given, and such as root will probably make equally good plants. Much more care must be given, however, or many will be lost, and there is nothing to be gained by attempting to root them in soil.

The best time to root violets is in the latter part of February or early in March. The "insects" inclosed were so badly crushed in the mail that they could not be identified. X.

GUTHRIE, O. T.—Farrow Brothers were nearly wiped out by a hail storm on the night of January 24. They locked the door before the horse was stolen by insuring in the Florists' Hail Association.

**BUY YOUR ROOTED**

**Carnation Cuttings**

THAT ARE GROWN FROM EXTRA FINE HEALTHY STOCK.

Alaska.....	
McCowan.....	\$ 2.00 per 100.
Albertini.....	
Scott.....	\$15.00 per 1000.
Keller.....	
Triumph.....	
Daybreak.....	\$ 3.00 per 100.
Jubilee.....	
Armazindy.....	\$ 4.00 per 100.
McBurney.....	
Flora Hill.....	\$ 5.00 per 100.
Mayor Pingree.....	

"Best stock" is cheapest. We took most all the carnation prizes at the recent St. Louis show.

**SOUTH PARK FLORAL CO.**  
NEW CASTLE, IND.

**Experiences**

... WITH ...

**CARNATIONS**

Ready now. Send me your address on a postal and receive them regularly, during the season.

**ALBERT M. HERR,**  
..... LANCASTER, PA.

**Rooted Carnation Cuttings**

Ready Feb. 1st.	Per 100
All cuttings will be filled	
in rotation. Send your	
orders to now	
M. A. Hunt Floral	
Co., Terre Haute, Ind	
P. O. Box 222	

**NEW CARNATION...**

**Empress**

Send for price list of above. New and Standard Sorts....

**WM. SWAYNE, Box 226, Kennett Square, Pa.**

**THE NEW CARNATION Cerise Queen**

The best dark pink we have seen or grown. Orders booked now. \$10 per hundred.

**Mayor Pingree** FINE STOCK  
\$5.00 per 100. \$40.00 per 1000.

**JOHN BREITMEYER & SONS,**  
DETROIT, MICH.

**WANTED Carnation growers to look into the merits of NEW CARNATION "ARGYLE"**

and be convinced that it is the coming commercial variety of its color.

READY MARCH 1st. Price, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000.

Send for circular for full description and a select list of money makers in Chrysanthemums.

**STOLLERY BROS., Argyle Park, CHICAGO.**

Anybody Can Grow

**Genesee** NEW COMMERCIAL WHITE  
**Carnation**

Originators: HARTON & BURR, Darien, N. Y.

For Prices, Circulars, etc., address

**DAN'L B. LONG, Sales Agent, BUFFALO, N. Y.**

**New CARNATIONS.**

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

**New Chrysanthemums.**

MRS. C. H. PERCIE—Yellow.  
35c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
50c each \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898.

**F. DORNER & SONS CO.**  
LA FAYETTE, IND.

**CARNATIONS**

STRONG, HEALTHY ROOTED CUTTINGS Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McCowan, Ivory, Silver Spray, Emily Pearson, Goldfinch, Eldorado, and others. Send no check of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**

Lock Box 11. GRAND RAPIDS, MICH.

It is good business policy to mention the American Florist when you write to our advertisers.

**ROOTED CUTTINGS**

**ROSES.**

Bridesmaid.....	
Nancy.....	
Perles.....	\$1.50 per 100.
La France.....	\$12.50 per 1000.
Meteors.....	Cuttings.
Kaiserin.....	

**CARNATIONS.**

William Scott.....	
Tidal Wave.....	
Portia.....	\$1.00 per 100.
Lizzie McCowan.....	\$7.50 per 1000.
Kohinoor.....	
Mrs. Thompson.....	
Daybreak.....	
Emma Woche.....	
Metec.....	
Goldfinch.....	\$1.50 per 100.
Lizzie Gilbert.....	\$12.50 per 1000.
Harrison's White.....	
Brideamald.....	
Nivea.....	\$3.00 per 100.
Jubilee.....	\$25.00 per 1000.

No order for less than 100 of one variety accepted. FINE ROSE PLANTS From 2 1/2-inch pots. Ready February 15th.

**REINBERG BROS.,**  
51 Wabash Avenue, CHICAGO.

**50,000 ROOTED CUTTINGS**

**CARNATIONS**

Daybreak, Rose Queen, \$1.25 per 100, or \$10.00 per 1000; H. Keller W. Scott, Thon, Cartledge, \$1.00 per 100, or \$7.50 per 1000; Lizzie Metowan, 75c per 100, or \$6.00 per 1000; Harison's White, Victor, \$2.00 per 100, or \$15.00 per 1000

**CHRYSANTHEMUMS**

Major Bonington, \$3.00 per 100, or \$30.00 per 1000; The Queen, Pink Ivory, \$3.00 per 100, \$30.00 per 1000; President Smith, Eda Pruss, \$2.00 per 100, or \$15.00 per 1000.

**VIOLETS**

Marie Louise, \$5.00 per 100, Double Alysium, 24inch pots 75c per 100. Cash with order or satisfactory reference

**PAXTON GREENHOUSES,**  
C. E. Taube, Prop. Harrisburg, Pa.

**BAKIER'S NEW CARNATIONS.**

Grown and tested five years. ONEIDA—Pure pink, healthy, no rust, continuous producer; largest size bloom. RED JACKET—Bright red, fine stem and early; continuous cropper. \$10.00 per 100. Orders booked now to be filled in rotation as fast as rooted. C. F. BAKER, Utica, N. Y.

Cleveland.

The supply of flowers continues to be rather short, although there is usually enough to go around, but at times, for special occasions, on busy days it takes some hustling to get suitable stock. Carnations are still somewhat short, but bulb stuff of various kinds tends to help out in emergencies. Harrisii at this writing are rather hard to get, the earlier stocks being about through, and there seems to be a break between them and the later stock. Owing to the very general prevalence of disease in the bulbs and their well known trick of throwing the best and healthiest stems in the earliest batches, it would not be surprising if there were some shortage later in the season. Dutch bulb stuff and valley show great improvement this week over the earlier forcings and are now practically as good as they will be. A few common Tournesols are to be seen, also a few Murillos, but both sorts lack in quality as compared with the early single forcing varieties. Prices continue steady.

There was a very large demand for flowers of the highest grade for the funeral of Mrs. Bingham, which occurred since the last report. Everything used was of the very best and in lavish quantities. American Beauties, cattleyas, violets and valley and similar choice flowers were very much in evidence. The most noticeable feature otherwise was the fact that almost nothing calling for a wire frame was to be seen, the only exception being some wreaths made up entirely in choice flowers artistically arranged.

The bowling club met as usual last Monday evening and had a great time. A game each of ten pins and nine pins was bowled, and some very good scores were made at both games. It should be remembered that Monday evening, February 7, is ladies night.



**Verbena King**  
ONE MILLION

to offer the following season in 55 of the latest and best mammoth named vars. in cultivation. Free from rust or mildew. Satisfaction and safe arrival guaranteed in every way to all parts of U. S. and Canada. @ 60c per 100; \$5.50 per 1000; 5000 for \$25; 10,000 for \$45; 25,000 for \$100. Express prepaid.

**HELIOTROPES**, rooted cuttings, 10 named vars. \$1.00 per 100; \$8.00 per 1000. Express prepaid.

**TESTIMONIALS.**

C. HUMFELD, DEAR SIR:—We wish to thank you for the extra fine Verbena Cuttings received. They were the finest we ever saw; also for the extra count we thank you. Resp'y, TIPTON & HURST, Little Rock, Ark.

C. HUMFELD, DEAR SIR:—Your Verbena Cuttings received this day. They are the finest cuttings I ever received; a credit to any florist; none better. Yours Resp'y, GEO. T. SCHUNEMAN, Blue Point, L. I., N. Y.

**CASH PLEASE.**

**C. HUMFELD, Clay Center, Kan.**

**MAMMOTH**  
**VERBENAS**

Verbena Seed, 100 Colors, up-to-date, per oz., \$1.00  
Coleus, 2 1/2-in. pots, 10 best bedders, per 100, 1.00

Send for price list now ready of Carnations, Geraniums, Feverfew, Salvias, Coleus, Cannas, and Gynura or Velvet Plant.

**The Morris Floral Co.**  
MORRIS, ILL.

**100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.**

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.

**NO RUST OR MILDEW.**

**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

**J. L. DILLON, Bloomsburg, Pa.**

**VERBENAS.**

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Grown in soil in flats, ready to shift into 3-inch pots, \$15.00 per 1000. S. A. Nutt, Beaute Poitevine, Mrs. E. G. Hill, Van Dael and Robt. Brett; the same in 2 1/2-inch pots, \$9.00 per 1000.

Standard sorts, such as double Grant, Bruant, La Fayette, La Favorite, Le Pilot, Gloire de France, Hoff Beech, Wonder, Mrs. J. M. Gaar, Jules Ferry Centaurean and others, \$12.00 per 1000. In 2 1/2-inch pots, \$18.00 per 1000. Mountain of Snow, in 2 1/2-inch pots, \$2.50 per 1000. Mme. Salleron, from flats, \$1.25 per 100 \$10.00 per 1000. Geranium line and white, from flats, 75c per 100 \$8.00 per 1000. Fuchsia, standard sorts, from flats, \$1.50 per 100, \$12.00 per 1000. Feverfew Little Gem, from flats \$1.50 per 100 \$9.00 per 1000. Selection of sorts to remain with us. Cash to accompany all orders.

Double Petunias, extra fine strain for flats \$1.50 per 100; \$12.00 per 1000. Variegated Vines, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Anemims, Cineraria, Double Golden Marguerite, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Salya Splendens, rooted cuttings \$1.00 per 1000.

**COLEUS**, assorted 2-inch pots \$15.00 per 1000; rooted cuttings \$4.50 per 1000; C. Verschaffeltii and Golden Queen, 2-inch pots \$18.00 per 1000; rooted cuttings \$5.00.

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**AZALEA INDICA** Fine Well-Budded Plants.

All the best varieties, and will make fine plants for Easter blooming.  
10 to 12-inch crowns ..... \$3.50 per dozen.  
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Cuttings, 6 inches long, tied 200 in bunch \$1.25 per 1000; 25,000 lots, \$1.00 per 1000.

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Low Prices. Send List of Wants to

**D. S. LAKE, - Shenandoah, Iowa.**

**Park Visits Buffalo.**

I was in Buffalo last week, and among those whom I had the pleasure of meeting was Daniel B. Long, who said business was very good; Christ. Christensen, formerly one of Buffalo's leading florists, who I found looking very well but suffering from a bad bunion on his left foot; Mrs. Newlands, a sister of Mr. McMillan, former superintendent of Buffalo parks, whose greenhouses always look well, and who has had a very nice trade; young Mr. Palmer, of W. J. Palmer & Son, Main street, who grow such fine Meteor roses and Daybreak carnations, trade with them being good; Schwert & Berner, the wholesale florists of Forks, who are growing and sending to the Buffalo markets some of the best stuff grown in the neighborhood.

Looked in upon Jos. Roehling & Son, of Gardenville, a suburb of Buffalo; their stock is in first-class shape. I did not see Mr. Wm. Scott until Saturday evening shortly before I started home, he being busy at his carnation plantation in the village of Corfu, where he is cutting some dandy carnations. I called on James Milley, of Masten street, his houses and stock were in A1 shape. John G. Pickleman, Jr., of French street, has a good stock of miscellaneous stuff, his lilies are looking fine. I also called on K. A. Kump, Jos. Staillinger, John Spies, Jr.; their stock looks all right and in good shape. I had a word with J. H. Rebstock, the Main street florist, who is always busy; he says while business has been splendid, collections are rather slow; the stock in his greenhouses looks well.

My time was so limited in Buffalo that I had to miss the pleasure of seeing Prof. Cowell, of the Botanic Gardens, and also Jas. Braik, of the park system PARK.

**Conservatory Notes.**

WASHINGTON PARK, CHICAGO.

In the furnishing of the conservatory at Washington Park there are a number of Chinese primroses of all varieties, shades and colors now to be had in this popular mid-winter flowering plant. Mr. Kanst has a variety, in color a counterpart of Mrs. McBurney carnations, with flowers nearly three inches in diameter.

There are a number of specimens containing three plants in each pot, the pots being generally of eight inches diameter. The effect is excellent, where strong masses of color are desired at little cost. Many of these have flower heads ten inches in diameter.

Impatiens Sultan is a very effective warm house plant at this season, and should be encouraged. A few specimens of Mevania creta with Tyrian purple flowers, having golden yellow throats, is just lovely. It is an old plant and none the worse for being so.

Among winter flowering begonias mani-

**NEW  
CHRYSANTHEMUMS  
FOR 1898**

Alice F. Carey, Chempwec, Dolores, Minnewaska, Mrs Gladys Vanderbilt, Robert G. Carey, Spotswood, at \$3.50 per doz.; \$25.00 per 100.

JOHN N. MAY, Summit, New Jersey,

cata and manicata aurea are beautiful with their bluish weird-like scapes. A fine display of azaleas are brilliant at this moment—lusty plants from eighteen to twenty-four inches in diameter, with bright, clean, healthy foliage. There are about fifteen varieties, all good. Their names are: Deutsche Perle, Flambeau,

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**Chrysanthemum Frank Hardy**  
The SENSATION of the Season.

Certificated by the committees of the Chrysanthemum Society of America at New York, Chicago, Boston and Philadelphia.  
First prize among whites wherever exhibited.  
The best mid-season white to date and indispensable to every grower whether for exhibition or the cut flower trade. Plants ready March 1st and orders filled in rotation.

Price, per plant, 50c; per dozen, \$3; per 100, \$20; per 1000, \$150. 25 at 100 rate, 250 at 1000 rate.

A. HERRINGTON,  
Florham Farms, MADISON, NEW JERSEY.



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**VICTOR**

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth.  
Rooted cuttings now ready \$1.00 per 100; \$5.00 per 1000. Come and see this carnation growing.

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The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$55.00 per 100; \$250.00 per 1000.

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Our 1898 illustrated descriptive catalogue accurately describing all the leading new and old varieties is now in the printers hands and will be sent about Feb. 1st to all who received our 1897 list without application. Send for it, it will interest you.

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A well-known horticulturalist writes: "It seems to me that the bulb industry could be largely transferred to, or at least started in this country if the Department of Agriculture would give an order for such bulbs produced in this country. This would stimulate the efforts of some intelligent growers in localities favorable as to soil and climate. These could be distributed to our common schools throughout the country for planting in school yards, and would have some advantage over seeds because they would come into bloom at a time when schools are usually in session. As an outcome of the distribution of seeds and bulbs in the way proposed, it could be reasonably expected that ultimately the government and local town and district offices would do much to beautify not only school yards but other public grounds and our road sides, as well."

PRINTER'S BOY.—"Say Jimmy, wot's de reason dey call dem big white flowers Harrisii for?"

OFFICE BOY.—"'Cause dey grow in Harrisburg, cully."—*Fact.*

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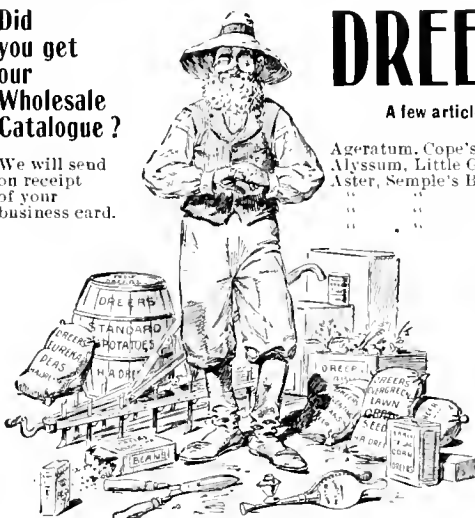
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A few articles of exceptional quality for present sowing.

	TRADE PKT.	OZ.	
Ageratum, Cope's Pet, very dwarf blue.....	.15	\$.40	
Alyssum, Little Gem, lb. \$3.00.....	.10	.30	
Aster, Semple's Branching, shell pink.....	.30	1.50	
" " white.....	.30	1.50	
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" " mixed.....	.30	1.25	
Aster, Vick's Branching, white.....	.30	1.50	
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Candytuft, Empress.....	.10	.20	
Carnation, Marguerite, mixed.....	.25	1.00	
Centaurea, Yellow Sweet Sultan.....	.15	.60	
Cosmos, Early Dwarf "Dawn".....	.50	2.50	
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Smilax, lb. \$4.00.....	.15	.40	
Stocks, Snowflake.....	.50		
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VAUGHAN'S "INTERNATIONAL"	oz.	½ oz.	trade pkt.
	\$10.00.	\$1.50.	50c.
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	\$5.00.	\$1.35.	50c.

These are strains with nine years' record and with a pedigree. We have scores of testimonials. Ask the best pansy grower of your acquaintance for his opinion of our strains of the above mixtures. \* \* \* \* \*

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the pioneer Seed Catalogue of America, is a perfect beauty, the best one we have issued in the forty-nine years of our business. We can honestly say that it leads them all. Those interested in the trade would do well to send for a copy of both wholesale and retail at once.

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**EXTRA SELECTED FLOWER SEED.....**

<b>SWEET PEAS,</b> Emily Henderson, lb. 35c	<b>ASTERS,</b> Trade pkt. oz.
—EX, Early Blanche Ferry, lb. 40c	—Queen of the Market, separate colors, white, rose, crimson, light blue, dark blue..... 15c 75c
—Blanche Ferry, lb. 30c	—Queen Market, mixed..... 15c 50c
—Cupid, Dwarf white, oz., 10c; lb. \$1.00	—Late Flowering, Branching, white and shell pink, separate..... 25c \$1.50
—Cupid, Dwarf pink (new), pkt., 10c; doz. 1.00	Pyrethrum Golden Feather..... 15c 40c
—Butterfly, lb. 20c	Centaurea Gymnocarpa..... 15c 50c
—Katherine Tracy, lb. 50c	

Wm. ELLIOTT & SONS,

NEW YORK.

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**EXTRA CHOICE FLOWER SEEDS.**

List free on application.

FRED. ROEMER, Seed Grower,  
Quedlinburg, Germany.

Wilkesbarre, Pa.

The following paragraph appeared in a local daily: "So long as congress retains the free seed swindle, there is no use in calling attention to the purity of American politics." And right here I may be permitted to quote from Mark Twain's latest book, "It could probably be shown by facts and figures." Says the humorist, "That there is no distinctly native American criminal class except congress."

Rather hard on congress, to be sure! But coming back to facts, it will be no exaggeration to assert that the free distribution of seeds is a crime, for the existence of which our honorable lawmakers are solely responsible. "Free distribution of seeds"! Fic! The very terms are obnoxious to the independent spirit of the liberty-loving American citizen.

However, it is not my object to call congress to task.

The two notable events of the season, the annual balls given by the "upper ten" and the Press club, surpassed in their pomp and magnificence anything of the kind ever undertaken before. Mr. I. G. Marvin attended to the former, and to his credit be it said his artistic decoration elicited complimentary remarks on all sides. That of the Press club was under the direct supervision of florist Humphrey, of Eldridge & Co. Given a carte-blanche order, his magnificent palms and decorative plants transformed the armory hall into a sort of dreamland. Both decorations were executed on a most sumptuous scale.

A new range of houses, fifteen in number, will be added during the coming spring to Mr. Benj. Dorrance's already extensive plant. It is likely that Mr. Dorrance will grow carnations as well as roses, for the New York market. As usual, the houses will be constructed of the best materials and equipped with all the modern appliances. Homo.

Leaky Gas Mains Damage Greenhouse Stock.

The P. J. Saunders Floral Co., Fiftieth street and Cottage Grove avenue, Chicago, have had a sad experience from gas escaping from leaky street mains. The pipes run about thirty-five feet from the ends of the greenhouse. Twice last season, the first time December, 1896, the second time February, 1897, and again January 20, 1898. The greenhouses became so filled with gas as to be very plainly smelled all over the premises, the result being that there is not a single plant in the greenhouses but what is ruined or nearly so. On each occasion when the damage has occurred the ground surrounding the houses, together with the street, has been covered with snow to the depth of three or more inches. The whole of the ground covered by the

greenhouses being warm and porous, the leakage from the pipes finds its way to the warm ground, whence it evaporates with most deadly effect.

Gas pipes running near greenhouses have become very dangerous in frosty weather. From actual proof are they not dangerous at all times?

# Roses Roses Roses

	Per 100	1000
BRIDE..... 2½-inch Pots.....	\$2.50	\$22.50
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MÉTÉOR.....	3.00	25.00
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MOSELLA.....	3.00	25.00
25 Other Choice Varieties.....	3.00	25.00

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ROOTED CUTTINGS.

**American Beauties** Per 100, \$ 2.50  
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**BRIDESMAID**  
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All wood specially selected and thoroughly rooted.

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Cash with order or C. O. D.

**300,000 YOUNG ROSES 300,000**

Ramblers, Climb. Malmaison, Climb.  
White Pet, Climb. Wootton, Pres.  
Carnot and 100 other leaders in Teas,  
H. Teas and Climbers.

Send for prices.

**The National Plant Company, Dayton, Ohio.**

	Rooted cuttings, Per 100	2½-inch, Per 100
Roses, Bride and Bridesmaid.....	\$	\$3 00
Verbenas, 12 varieties.....	.60	2 00
Vines, (Major).....	3 00	2 00
Mme. Salleron Geraniums.....	.75	2 00
Ageratum, blue and white.....	.60	2 00
Coleus in variety.....	1 00	2 30
Rudbeckia, (Golden Glow).....	4 00	4 00
Abutilon, Souv. de Bonn and Eclipse.....	3 50	3 50
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Moonvines white and blue.....	4 00	4 00
Salvia Splendens.....	1.50	3 00
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Paris Daisies, white.....	1.50	3 00
Hellebore, blue.....	1.50	3 00
Begonia Vernon, red.....	3 00	3 00

Stock ready now. Terms cash or approved references.

**INDIANAPOLIS FLOWER AND PLANT CO.,**  
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## NEW FORCING ROSE

### MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2½-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

## Rooted Cuttings...

Am. Beauties, Brides, Maids, V. Kaiserin, Perles, Belle Siebrecht, Météors. Same in 2-in. pots ready Feb. 15th to 20th. Send 50c for samples and get prices.

**GEO. A. KUHLE, Pekin, Ill.**  
Carnation Cuttings ready Feb. 1st.

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As one of the syndicate holding stock in this rose we offer first class plants, from 2½-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

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Helpful Reminders.

In arranging your plants in the different houses contrive, so far as possible, to put the different varieties requiring like treatment together; it simplifies matters, particularly if you have employes doing work for you. Chrysanthemums for pot plants and stevia go together and here let me suggest cosmos which also works in to good advantage. Get the seedlings ready to pot when cuttings are struck, and from then give them like treatment; they bloom through fall and winter, filling 8 to 10-inch pots, and supply long stemmed flowers by the thousand. Poinsettias that have been beheaded should now be put close together in a dry situation; under a bench will do.

Those of you who do a retail plant trade should not fail to provide Asparagus verticillatus for a hardy climber; it is a beautiful vine; get seed in at once. It is yet early to pot up canna roots, but if you are short and wish to grow from seed, lose no time in starting it. Look over your callas now; if they are pot bound give the large pots a top dressing of cow manure and shift the smaller pots. If any part of your violet bed is a failure, throw out that portion of the plants and put in fall grown pansies. If you have not provided any procure them from a pansy specialist at once; they do well in a violet house and a few blooms daily are acceptable.

Insects begin to annoy most gardeners now; just as many plants have made new growth and look encouraging, you find some pest just about to ruin your crop, and you stay awake nights calculating the best method of warfare. The insecti-

cide man attracts your attention, you contribute to his support and then affect a compromise with the insects. Take your share to market, grumble at your returns, and next February start out the same way. For the sake of illustrating a point, I wish to state a fact foreign to the subject.

If you make a bonfire in the woods, you will have a crop of raspberries on the spot within a year, not because the raspberries are looking around for just such a spot and then locate there, but because birds drop the seeds everywhere, and only when they happen to fall on the ground they like, do they grow. All the other germs or seeds perish. Every florist who purchases stock from various places is sure to have in his houses germs of every kind of insect, and when conditions are just right for any one or more, they multiply frightfully quick. It is therefore something you do, or neglect to do, that causes the demand for insecticides, and February is the month you make the discovery. The whole trouble lies in the improper administration of your water, as compared with nutriment for the roots and temperature; a plant will make rapid growth until it gets a large top of soft leaf, from which evaporation is most rapid. While this is true of the top, the roots are crowding the pot so there is no room to store water for more than immediate use. A bright sun comes out, you get there too late with water, the plant is wilted; the ball is so dry that when you do give it water, it neglects altogether the assimilation of nutriment for the time, and is at once weakened. If this happened but once, it would not be so bad, but as days grow longer, growth is more rapid, you

are crowded with work, and it happens several times; then you employ temporary help, and you put this "green-horn" at watering, (insects always know when you have a "green-horn" doing your watering), and they multiply by the thousand. Careful watering is the only preventive of insects. These brief remarks doubtless hit many in a sore spot. Some may take exception to what I have said, particularly those who manufacture insecticides. We should have this matter carefully laid before us by experts who will prepare lantern slides, illustrating the effects on plants of various ways of watering.

Now is the time to employ some teamster to procure for you twenty-five or fifty loads of cow manure for future use. Do this every year and keep two years supply ahead; teamsters have little to do now and will charge you less.

If you do any plant business, start at once seedlings of Marguerite carnations for bedding, it is the most satisfactory carnation for summer use that you can set out for a customer. Nice plants will be ready by May if started now. In order to keep up with the procession, you must be ready to supply the growing demand for perennials, if you have not a stock on hand, save expense by starting seedlings, it will be to your advantage to start a number at once. You can get from your seedsmen most of the varieties required.

Where immediate effects are required, two year roots are necessary, but your seedlings which are left over should be planted in rows properly labeled, and they will be in fine condition for fall trade or the following spring. C. B. W.

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The most severe storm experienced this winter is raging at the time of this writing. It would be a very difficult task to keep glass houses up to the proper temperature in such a storm, but fortunately the houses are all neatly blanketed with snow, keeping out the cold wind and everything is warm and cosy.

Trade has held very steady since last report and we are disposing of all our flowers at remunerative prices; we are getting a good supply of all the regular lines, and plenty of good bulbous stuff is now available. Romans are nearly exhausted, but we are getting good miniature hyacinths in pink and white. Pans of hyacinths, narcissus and Keizerskroon tulips are selling well, also azaleas and cyclamens; one pink variety, known as Princess May, is very popular.

Some little time ago, a few growers interested in carnations, took a trip to Rochdale, Mass., to inspect F. A. Blake's seedling carnation Bon Ton, which has created quite a ripple of enthusiasm among Eastern growers. The party, which included Wm. Nicholson, Peter Fisher, C. W. Ward, C. A. Cook, H. F. Littlefield and the scribe, were met at the station by carriages and conveyed to Mr. Blake's residence, arriving, not with malice aforethought, just at the dinner hour—New England time, noon. After partaking of Mr. Blake's hospitality the party adjourned to the greenhouses, were presented to Bon Ton and much pleased with its appearance. Bon Ton

is a fair sized flower, nicely fringed, not too full, has a slight fragrance, is of a pleasing shade of scarlet, good calyx, and borne on stiff stems of medium length. It is a sturdy grower, needing no staking, with strong characteristic foliage, heavily coated with bloom and had a very healthful appearance. One house, containing some five hundred plants, averaged nine buds and flowers, not counting what had been cut, or leading shoots, a very fair average for middle of December. Bon Ton is not of Mr. Blake's hybridizing, being a prize found in a package of "boughten" seed and supposed to be Portia x Caesar. A. H. L.

BENTON HARBOR, MICH.—The Twin City Floral Co. will erect five new greenhouses this coming spring.

WHITINSVILLE, MASS.—It is in the nature of an annual pilgrimage that we go to Whitinsville to see the wonders that seem never to cease there. This time calanthes were a sight never to be forgotten, hundreds of spikes; if we told how long they were, it would not be believed, but often three from a bulb. Then there were the giant cælogenes that have bulbs like hens' eggs for size, and that throw two spikes each, out of deference to the wizard that has them under control. Mention must also be made of the number of seedling orchids, a great many of which were in flower, including some good things among cyripedes, and many more to follow. Mr. McWilliam we were pleased to find hale and hearty; may his smile be spared to us long, that we younger ones may profit still by his long experience so willingly imparted. E.

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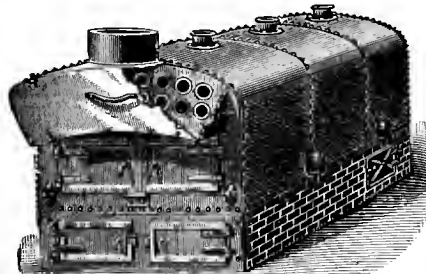


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What to do Now.

Where a number of plants of various kinds are raised from seed, no time should be lost in making a sowing. This applies to pansies for late flowering. Lobelias, petunias, verbenas, centaurea, Cineraria maritima, asters, stocks, golden pyrethrum, smilax, tuberous begonias and gloxinias. All soil used for sowing seed in should be open and friable, with a goodly mixture of sand. The surface before sowing the seed should be uniformly level, and for very fine seeds quite smooth; all seeds should be firmly pressed in the soil; they should not be covered too deep; such seed as begonias and gloxinias require no covering at all, providing they are pressed evenly with a smooth and level tamper. Such seeds as verbenas and asters cover from one-eighth to one-fourth inch, and heavy seeds such as smilax, about one-half inch deep. Care should be taken in the watering, especially the first time. It is best to go over several times either with a fine rose watering pot or a rubber sprinkler giving sufficient each time to wet the surface without swilling; do not give so much as to have the whole body soggy to begin with.

It would be well, where it is possible, to have a place at 55° for stocks, asters and phloxes, etc., and another at 65° for begonias, gloxinias, smilax, etc. All seeds germinate better where no direct light reaches them; a northern or eastern bench is a good position for them, they will be all the better for being shaded in the bright daylight. Where it is possible seeds should be sown in uniformly deep flats or seed pans; two inches of soil is deep enough for nearly all seeds to start in. Where the surfaces are even it is easier to shade than where there are various deep pans and boxes used.

When the seed begins to germinate among the very smallest, be careful not to expose to draughts or sudden light. It is important, however, that they be brought as close to the light as possible, without being checked.

It is a good time now to make a sowing of sweet peas in flats, and in a month from now make another sowing. Sow now only such kinds as will flower early. It is best to sow rather thickly and then as soon as the third leaf appears prick them out in flats about two inches apart. The flats need not be deeper than two inches. These plants can be planted out at the latest by the 10th of April and in some localities as early as the middle of March. They bear transplanting as easily and as surely as celery.

It is time all seeds are either on hand, or the order for them placed. Where seeds, such as sweet peas, pansies, asters, stocks and phloxes are required get them to order, not in mixed packages. J. T.

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For applying it to such plants as these an ordinary rubber plant sprinkler with a crooked neck is used, one bulb full of the solution will go over quite a number of plants, that is where the crowns alone are sprinkled. Any such plants as stock chrysanthemums, etc., that may become infested with fly, thrip, etc., it will be found invaluable as a liquid to dip them in. We use a 5-cent bar of the soap to five gallons of water; it should be shaved up finely and some hot water added at first to make it dissolve quickly. ALPHA.

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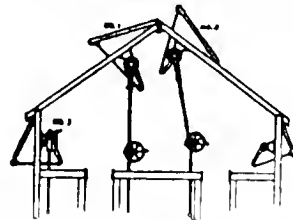
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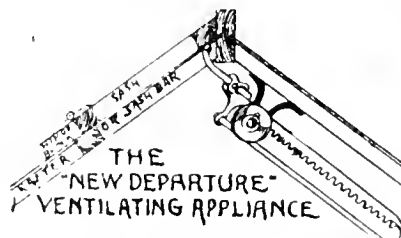
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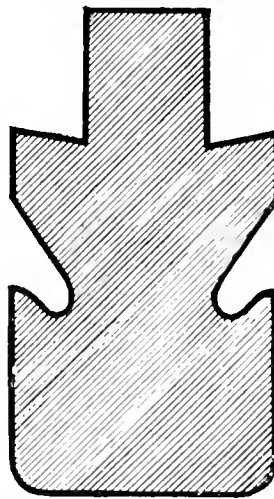
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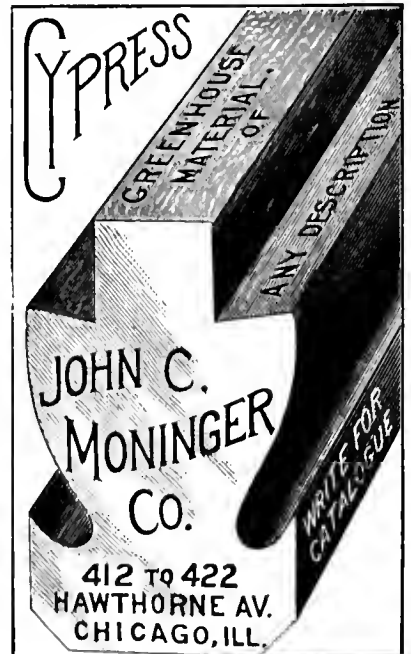
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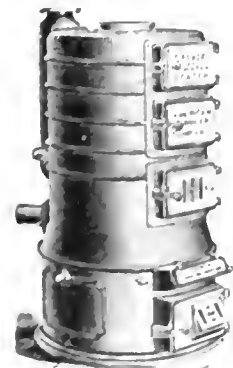


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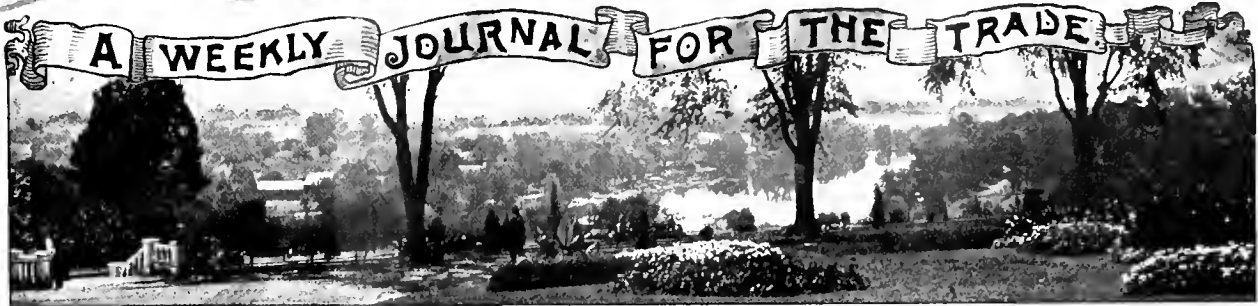
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# THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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## THE AMERICAN FLORIST

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THE AMERICAN CARNATION SOCIETY.

Annual Convention at Chicago, February 17 and 18,  
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## VIOLET CULTURE

Near Washington, D. C.

No one could ask for a better combination of scientific and commercial work than is seen at the violet houses of Galloway and Dorsett, Garrett Park, D. C. Professor Galloway is chief and Mr. Dorsett is assistant in the Division of Vegetable Physiology and Pathology in the Department of Agriculture. In their work with plant diseases they became convinced that there is only one satisfactory way to do, namely, to live with the plants the year around, and have a stake in their success. They live at Garrett Park, about half an hour's railroad journey from Washington, and began their greenhouse experiments in a small way. Their work with radishes and lettuce is well known to experts and is too important to be neglected by anyone who has not had entire success with these crops. Both these men have a passion for violets, and for three years they have grown nothing else.

Amateurs usually fail in the third year with violets, but Galloway and Dorsett have raised the average yield of their plants from fifty to eighty flowers per plant per season in only three years' work, and there is no reason why they cannot average 100 flowers in every house. However, these men are not amateurs, for they have marketed their product successfully, and have made the investment pay. The work of these two men in the Department of Agriculture is the study of the health and diseases of plants. Yet it must not be supposed that their success in violet culture is due to a technical knowledge of diseases which the commercial florist does not possess. Nothing could be farther from the truth. An ounce of prevention is worth a pound of cure, and their energy in violet culture is directed towards breeding up a lot of pedigree plants that will resist disease.

"The violet disease" is not any one thing unless it be another name for general neglect. There are dozens of diseases that enfeeble violets, and there are at least eight of them that are widespread enough to be of national importance. It is certain that none of the other staples of commercial floriculture are treated with such general negligence in this country as violets. They are undoubtedly third in commercial importance in America, roses and carnations being probably greater and chrysanthemums less. The three greatest things, at present,

in violet culture are selection, selection, selection! Very few florists have any idea of what can be accomplished in three years. Fifty flowers per plant is considered a good average for the season, and most of the florists look upon an average of 100 as commercially impossible, or at least too remote. It pays to pick out a few plants, give them stakes and cards, and keep a record of the number of flowers picked, with the dates. There are the possibilities of a dozen paying strains in that one variety, Marie Louise. "Some plants give most of their flowers in the fall and spring, others will yield them pretty steadily each month, while others still will give the greatest number during the winter months, when there is no mass of blooms and prices are high."

The records of Galloway and Dorsett show that there is a wonderful variation in size and general vigor of growth, resistance to disease, number of flowers produced, color of flowers, length of flower stems, etc. A bit of red cloth on a stake is a danger signal. It marks a diseased plant, and at the end of the season every one of those plants is thrown away. It pays to propagate from a few pedigree plants. I have never seen an even lot of plants than the stock these men have worked up in three years. Another lot which came from one of the best violet specialists in America was far better than the general run of florists' stock but was not to be compared with the locally developed stock; 6-inch flower stems are the rule, and 10-inch stems are not infrequent. In short, the wholeness of success is one of special care as against general neglect. At every point there are signs of hard work, and the quantity and quality of the work is that of men who put heart into it as well as brain.

Where will all this specialization end? Shall we have retail stores in our large cities that sell carnations exclusively in their season? and shall we have others that make a specialty of violets? It may seem extravagant and remote, but Mr. Dorsett believes it is logical and necessary.

In making this plea for selection, as the most important feature of violet culture to-day, I shall purposely say less of greenhouse construction and management, and I wish to emphasize the practical nature of the experiments here carried on. While it is true that the work in these glass houses has made considerable additions to knowledge by methods that are beyond anyone but the trained student of technical science, nevertheless the experiments are chiefly such as every progressive violet culturist can and ought to undertake in his commercial work. The

effects of different depths of soils, the value of benches and beds, methods of drainage, sub-irrigation, continued cropping on the same soil, sterilizing the soil, etc., all these are problems which should be solved locally, for although they are broad questions, the general results are likely to be conflicting in different parts of the country, and it pays to test every general principle. For example, the very same disease (according to these specialists in plant diseases) is often given opposite kinds of treatment in different parts of the country with equal success, and here I would urge this consideration about the use of cyanide against aphides in greenhouses. The florists of the country are afraid of the gas. Possibly the very minuteness with which all the directions have been given, only tend to increase their sense of danger in the process both to men and plants. But we should reflect that ten years ago the same shyness was felt about the use of Bordeaux mixture, Paris green and all-spraying with poisons. The process is not dangerous to man if the directions are followed. The work is easily done, and the applications may be light at first, if growers are afraid of their plants.

Incidentally, there is practically no "spot" in these houses. It is impossible to find a house anywhere that is absolutely free from it, but I have never seen any houses that had less. Locally, indeed the botrytis has been far more troublesome, this season than the "spot."

I wish that Galloway and Dorsett could be prevailed upon to give every detail of their greenhouse construction and management, for their solution of local problems, if not capable of general application, is full of suggestion. All the plans were drawn by Mr. Dorsett and all the details of construction done with his own hands. They have only 3,000 square feet of glass at present but the business is growing. Frames must go, and plants must be grown the year round in the places where they are to flower. A 16-foot house is plenty wide enough, Mr. Dorsett thinks and he believes in side ventilation as well as top. One of the two may be used for only a few days in the year and side ventilation is expensive, but ideal. Much trouble was experienced from poor circulation until the pipes were all run at the same grade. Contrary to the general opinion, distance from the glass seems here to be a factor of almost no importance. Near the sides the plants are relatively larger, especially in summer, because of the shade, but their mass of foliage is at the expense of flower production.

Only a few details of management can now be hastily noted. The summer buds are scrupulously picked off and runners are never allowed until the flower season is over and the plants are actually wanted for propagation. With plants like these which grow so evenly as to hide the ground it is impossible, even with good ventilation and the greatest care in watering, to keep the lower leaves dry. In cloudy weather they are wet for days, and the healthier plants cannot be entirely free from disease in conditions that give a single chance for the germination of fungus spores. Sub-irrigation has never been given and thorough trial yet at the place. Violets are bluer in the shade. The Earl of Campbell is not blue enough as a rule for the New York market. In feeding experiments, other experience has led to the conclusion that other things being equal, a heavy grade well balanced chemical fertilizer of more value than any of the best of fertilizer of higher grade. WALTER MILLER.

### Violet Growing.

There are so many ways of growing violets that it seems any one might select one that would suit their circumstances. There is the benching system, either on benches or in solid beds, growing the plants outdoors or in pots, then the planting and growing in beds all summer.

The only way to grow violets is the one where the cost of production does not exceed the price of the product. Bearing this fact in mind, the grower should select such a method as will accomplish this in his locality, his environment and his markets.

Of course failures to accomplish this will sometimes happen, even to the one that has grown violets successfully for many years, and most often does it happen to those that change localities, because the violet has its own individuality in every place, often when the places are not more than a few rods apart.

Any one keeping this fact in mind and having the power of observation will, I am sure, be able to work out for himself a best way to grow violets, for there is more than one right way to grow them successfully.

During this month and from now on our violets bloom most profusely, but also from now on the flowers will commence to grow smaller and lighter in color if the plants are not well cared for.

The runners commence now to grow freely and are full of flowering buds; if left they will increase the number of flowers considerably, but will in the same dimensions lessen the quality of the flowers. I use the runners for cuttings, to furnish the plants for next year. Our practice is to trim them in suitable form and dibble them in on the edge of the carnation benches, next to the walks, where they will form roots in from two to three weeks and make nice plants by the last of April, ready to plant in the field by the first week in May.

We keep our plants rather wet, and use liquid manure once every week. This manure water is made from cow, horse and chicken droppings; no other material is used. With commercial fertilizer, either in liquid form or applied at the rate of five pounds to 100 square feet, in the culture of violets, we have been very unfortunate, and have discontinued it.

Sometime I will tell you how we grow our plants, as we grow them in the field during the summer, and how we grow them in the houses at that time. We practice both ways and have yet to learn wherein one way is better than the other.

CHAUTAQUA.

### Freesias in Pots.

These bulbous plants are generally cultivated in boxes or flats in the average floral establishment, cutting the flowers for bouquets, and other decorative purposes. This is without doubt the most profitable method of culture, but our illustration shows what can be done with them in another way. Pots of this character find many purchasers, and by judicious handling in the matter of successive planting, a supply of such pots may be had in bloom from Thanksgiving to Easter. It should be remembered that *Freesias* will not develop flowers much earlier than twelve weeks after they are fairly well rooted, and for this they require a temperature of about 70°, which should be gradually increased to that maximum limit. B.



PAN OF FREESIA

### Desirable Flowering Plants for the Holidays.

[Paper read by John Westcott before the Florists' Club of Philadelphia, February 1, 1898.]

I am asked to tell you the desirable flowering plants for the holiday trade. I would sooner have had the subject allotted to one of our leading city florists or storekeepers, as they are in closer touch or come in immediate contact with the buyers or flower-loving public, whereas, as most of you know, that I for the past few years have been located outside of the built-up portion of the city, away from the live part of the town, surrounded with the quiet or dead people, and they furnish very little information, keeping what they know to themselves, a dead secret; they do not seem to want or be looking for anything new or special.

How different to the city florists and their customers, they are on the continual hunt for something new. I hope that my hearers to-night are not on the same tack; if they are I can tell them in advance that they will be disappointed.

I do not propose telling you of a lot of new or rare plants that might be desirable, but confine my list to those I know can be brought in flower for the holidays, and, if well grown, prove desirable and a benefit to the whole trade, both financially and otherwise.

I will commence with one of the most popular plants, the azalea, and say that the colored or bright-flowered varieties sell first. *Amaryllis*, the formosissima, *Vallota purpurea* and the striped or hybrid varieties of the *Vallota* type are very pretty and salable. *Begonia*; several kinds can be grown to advantage. *Bougainvillea glabra Sanderiana*, make fine specimens if nicely grown and trained. One of the showiest and most effective flowering plants. *Bouvardias*, in variety. *Cyclamen*, one of the prettiest and best selling plants. *Clerodendron Balfourianum*, a pretty plant if nicely grown and trained. *Carnations*, in variety. *Chrozozema elegans*. Chinese primroses, in pots or pans. *Daphne odorata*, a very nice old-fashioned plant if well done, can be sold in quantity. *Euphorbia pulcherrima*, one of the brightest and best sellers for Christmas, very desirable if grown in pans, six or eight short plants in each. *Euphorbia jacquini-flora*, same as above, only more plants required to each pan. *Erica Mediterranea*, *Erica Wilmoreana*, and a few others, can be had in bloom, and should be grown in moderate quantity. *Eperis*, for which same rule as above holds good. *Geraniums*, nicely grown plants in about 6 inch pots have their place. *Linum trigynum*, a very showy plant when in bloom, with its mass of bright yellow flowers. *Libonia*, *Linum Harrisii*, lily of the valley, calla,



narcissus, Roman hyacinths, *Primula obconica* are wanted in moderate quantities. Marguerites and stevia, particularly the dwarf and variegated varieties of the latter, are among the best sellers and are used in quantity.

There is a place for some good orchid plants, such as *Cypripedium insigne*, *C. Lawrenceanum*, *Dendrobium nobile*, *Cœlogne cristata*, a few of the cattleyas and possibly others which I will leave for someone else to name who is better posted than I am.

There is undoubtedly many other flowering plants that have been overlooked by me that could be added with advantage. I think, however, that my list is sufficiently long, and before finishing would like to say that it is far more important how it is grown than what is grown. If each

growing, and are only too glad to get something really fine and pay liberally for the same.

Finally let us resolve, and do our share as growers, towards elevating and encouraging our business, so that whatever we grow and flower will be desirable, not alone for the holidays but at all times. Let our motto be "Onward and Upward," so that our products may prove to be, and that it may be truly said they are, "A thing of beauty and a joy forever."

#### Calanthes.

Deciduous calanthes are placed under the bench in a temperature of about 60° to rest, as soon as the flower spikes have been cut off. They stay there until the young growths begin to appear again,

added, the bone having first been allowed to heat and cool off. The pots are filled about two-thirds with potsherds and charcoal, but when seed pans are used, very little drainage is necessary. The compost is put on and pressed down firmly, space for watering being left. Small stakes are inserted to steady the bulbs until the roots take hold. The bulbs are set rather high to prevent the young growths from damping. After a good watering to settle the soil, they are placed in position well up to the glass, and gradually lowered as the growth advances.

Until the first flowers open, the plants should be syringed every bright morning, lightly at first, later on heavier, and this will be about all the water they will need for a time, but when well-rooted they



A HOUSE OF CALANTHES.

grower will grow only what he can do well, and leave the rest to other growers, the trade will be greatly benefited, and any or all of the plants that I have named will be wanted; whereas, if they are poorly grown, or flowered, will be very undesirable for the holiday or any other trade; they will be an injury all around, a loss to the grower, to the storekeeper and a disappointment to the customer.

Let me say, what you do, do it well, whether it be a geranium for the buyer with a moderate amount to invest, or an orchid, or other higher priced plant, for those who have the means and inclina-

tion when they are shaken out of the pots, the roots cut off, the bulbs then placed in shallow boxes or seed pans with a little sand beneath them, and the boxes set on the bench near the light, but shaded from direct sunlight. When the roots appear on the young growths they are ready for potting.

They do well either in pots or shallow pans, the soil used being turfy loam with the fine soil well shaken out. When well rotted cow manure is obtainable, a little of it may be mixed with the soil, but leaf soil is preferable to green or rank manure, and a little fine bone and sand may be

take up water freely, and on no account must they be allowed to suffer for it. When the young growths commence to form bulbs, weak liquid manure should be given, once or twice a week for the first few weeks, then every time they are watered until the first flowers open, when the plants should be kept moist with clear water as long as the foliage stays green. Some of the plants will have leaves on when the flower spikes are ready to cut, if care is taken not to expose them to the bright rays of the sun, and it is desirable that they hold the foliage as long as possible, which will give larger

bulbs and consequently stronger flower spikes for the coming year. From strong bulbs we get two, three and even four spikes, and four spikes means sometimes over one hundred flowers to the bulb, but I notice that when a bulb goes to extremes in flowering it starts weak the following spring.

Calanthes require a warm house; the temperature should not fall below 65° at night and 70° is preferable from the time the bulbs are potted until half the flowers are open. After this time they will require little water, and will do in a lower temperature. To keep the bulbs healthy, do not store them where the temperature falls below 50°, nor over the heating pipes, where they will dry up.

The accompanying photograph was taken the day before Christmas and shows only a small part of the calanthes that were in bloom here on that day.

GEORGE McWILLIAM.

#### Sweet Peas Still in the Ascendant.

Twenty-five novelties in sweet peas for 1898! So the list stands, with several counties to hear from. Personally I am not responsible for any additions to the list, not but what there are varieties of merit among them, but because it is unfortunate to swell the list at such a wholesale rate.

Mr. Eckford puts out seven, W. Atlee Burpee & Co. nine, Peter Henderson & Co. one; S. T. Walker, of Forest Grove, Ore., issues his first catalogue as a sweet pea specialist, and names seven that he thinks worthy of a place. Mr. Sam Hamilton gave the names to the two best on Mr. Walker's list. I suppose the Sunset Seed Co. will offer a very fine dark, satiny, indigo blue novelty, which they sent out for trial last year. Vaughan offers the three varieties of which Mr. Lynch let a little trial stock go last year, and which having been on my catalogue were counted in as 1897 novelties. And I understand that Vick puts out another double variety.

I have decided not to issue a list for 1898, although as an easy way to answer inquiries, I have had the novelty list printed. My wish is to fall back into the ranks of impartial critics. I cannot say, as one sweet pea enthusiast said to me to-day, that he was disappointed in the entire novelty list for this year. It does not present as much originality of color as I hoped. But we must remember that we are now at a stage where we have had some colors only in name and are getting nearer and nearer to the genuine thing. Mr. Eckford claims on the strength of a first-class certificate to have now a bright orange variety. We have had orange rose, orange pink and orange salmon, but now there seems to be an advance in purity of color in this line. One of the finest sorts Mr. Eckford ever offered was Her Majesty, and this year he puts out a new bright rose self, which I shall expect to see in an advance on that grand sort. When I was at Wren he had the dark maroon color of Stanley carried up to greatly improved size, and now he offers his latest work on that color.

I thought at one time that if one should go to England and see Mr. Eckford's work he could report with a good degree of accuracy on the description of his novelties, but although I took notes on the spot describing each of last year's set, not one of them seem to be fully on here with my description. It is so strange to have the Sunset Seed Co. put Queen Victoria down as a third-class production that should be reported. I consider it the finest thing in the whole set. It is an abundant lion as in England. It is a rich cream

primrose, showing in its substance its black seed origin, and not betraying with any noticeable effect the latent fawn color that our climate seems to bring out. I am told that it broke here, as Countess of Aberdeen did the year before. Then I was enthusiastic about the new red of Salopian, inclining decidedly towards dark cherry. But much of it has seemed almost identical with Mars in this country.

I don't want to be cynical about these things, for I know that Mr. Eckford's work is grand. I would like to go in among his advance seedlings and get an ounce of true seed of about three first-class novelties each year and take that seed direct to California, and then add on the same number of the finest selections from American seedlings. Six real good novelties a year would excite our enthusiasm sufficiently.

But there is another side to this matter. The ruinous under cut in contract prices has forced our best growers to some kind of protection. They have found a little relief in novelty stock. In all fairness they are entitled to it. If I know that a certain grower will take special pains with an improved strain of some old popular sort, and that he will father that improved strain, and feel a special obligation to hold it up in quality, I am willing he should rename it, and get some just compensation for his work on it. He could get nothing for growing the old deteriorated stock. Butterfly was Butterfly till it ran out. Now it is better than ever as Maid of Honor, and when that deteriorates they can call it Maid of Orleans if they want to, just so they give us back good stock of that dear old blue edged sweet pea. There never was any sense in calling it Butterfly, anyhow.

Mr. Eckford's advance set stands as follows: Prince of Wales, award of merit, R. H. S., a bright rose self of intense color; Lady Mary Currie, award of merit, R. H. S., and four first-class certificates, a deep orange pink, delicately shaded rosy lilac; Chancellor, four first-class certificates, standards bright orange, wings bright orange pink; Colonist, two first-class certificates, soft lilac, overlaid with brightest rose; Duchess of Sutherland, a pearl white, delicately suffused with light pink; Duke of Sutherland, first-class certificate, deep claret, wings bright indigo blue, the whole flower becoming bright indigo blue with age; Black Knight, a deep maroon self.

The Burpee novelties are sure to give satisfaction in respect to germinating, quality, and abundant bloom. The set this year gives us some genuine seedlings from the original crossing, done by C. C. Morse & Co. The stock sent out last year under the name of Burpee's American seedlings really gave us our first taste of Morse's hybrid stock, and now we shall have many fine things from it. Once get the secret of crossing Eckford's finest sorts and the product is a break into an unlimited field of new sorts. Our California growers, and especially Morse, are just getting into this rich field. And it is no easy question how to introduce this array of novelties. I have been in the sweet pea business for the fun of it, but I do not recommend this as a criterion for other folks. I can see honest, straight work behind every one of the twenty-five novelties this year, not one of them being as much of a fraud as my Columbia seemed to have been last year. The Burpee set will find enthusiasm for their splendid grandiflora size and lusty habit, as well as their novelty in color. The finest of all is Stella Morse, it's best guar-

antee being that the name has been held in reserve for several years till a variety worthy of this favorite daughter and sister could be produced. It is a beautiful novelty, a rich creamy buff, the edge deepening into rose pink. I do not think that any one of the set will be disappointing.

A word about Pink Cupid. Its blushing cheeks are not due to any embarrassment it feels over the misfortune of White Cupid. It is a little cherub. I had no trouble with it. It germinates and blossoms perfectly and takes kindly to pot treatment.

I am glad to see Lynch's Bride and Emily Lynch well spoken of. The former is such a fine white, and its germinating quality is so perfect that it ought to be generally tried. I could not pick out from it quite such large blossoms as Blanche Burpee showed, but it made up in quantity. And for a rich, warm effect I commend the Emily Lynch. It is really a remarkable introduction. Mr. Lynch has two or three more ready. Then Golden Glean is a grand strain of Mrs. Eckford. It is a pity the stock is not more plenty, for we want it in our shows. Walker's Coronet was a thing of merit, coming the nearest to an orange stripe. It's short stems were a defect. He is working on a Flambeau mixture, and the best things in it are some grandiflora stripes of ox blood red. I wish to commend his work now that I have no further business connection with him. For seven years I have watched his conscientious work, and if sweet peas have any future he deserves a show in the rewards. Peter Henderson & Co. have secured a novelty called Minnehaha from him, a fine selection from his Flambeau hybrids. The prospect for 1898 is bright. The reports indicate that the sweet pea shows will be more of a feature than ever.

W. T. HUTCHINS.

#### Phormium Tenax.

In our endeavors to obtain a greater variety of plants for sub-tropical and other planting, we have had occasion to



PHORMIUM TENAX IN 8-INCH POT

prepare quite a stock of Phormium tenax. The type is principally used as the variegated forms do not do so well here.

For certain combinations and in places where it can have plenty of moisture, it is a very valuable plant; having a very

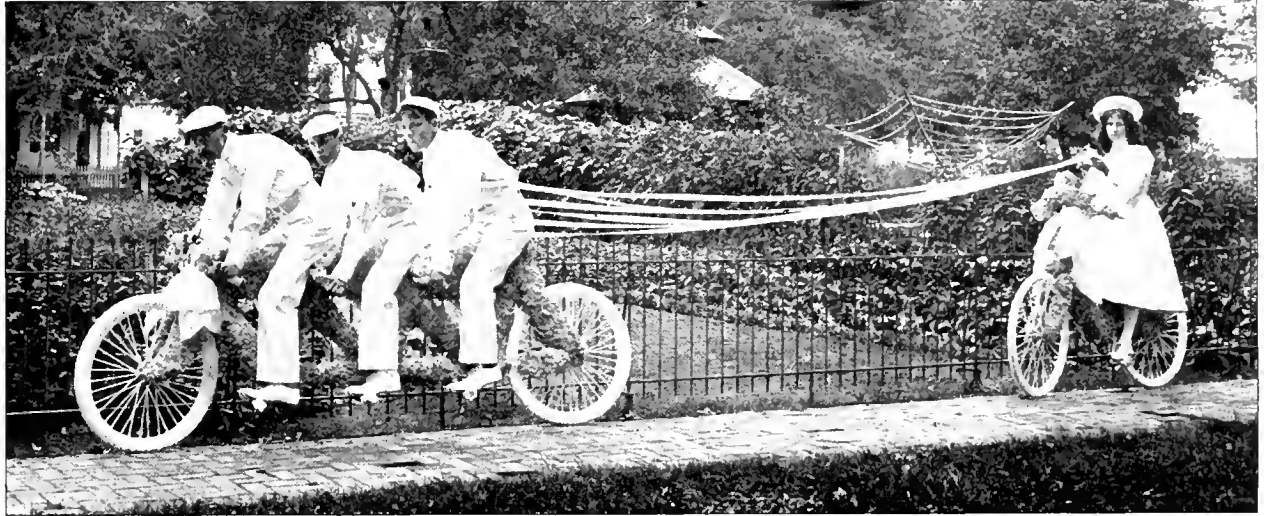
distinct and unusual character all its own. I call attention to it now because the present is a good time to begin its propagation. We think that much better results can be obtained by raising from seed than by division. Seed sown now and grown on rapidly will make nice plants for the spring of next year. The seedlings may be either planted out or grown on in pots, giving a good rich

as they require it, never letting them become hard or pot bound. Do not give them too rich a soil, as this is apt to induce a rapid, soft growth, and cause them to become drawn.

There is an old saying that necessity knows no law, and nowhere does this apply more than in a greenhouse, especially in those places where attention is given to a general assortment of spring

that are only twelve inches apart. I never was very good at mathematics, but it seems to me that as close as Mr. Siebrecht advocates planting the pips, he could have room for over 250,000.

We must not compare the labor of this country with that of Europe, for here we do things very different from what they do over there where they do most of their work by hand, while here the horse is



FLOWER FESTIVAL DISPLAY TRIPLET TRIMMED WITH WHITE ASTERS AND IMMORTELLES.

compost, and plenty of water after the plants have "taken hold." By reference to the photograph, of a plant in a 6-inch pot, a year and a half old, one can see about what can be done under rather cool treatment.

The plant shown is about three and a half feet in height, and as will be evident, well furnished.

If one can afford room in a warm house they can be grown better. Where partial shade can be had and an even moisture maintained, the purple form is beautiful, as also are some of the variegated ones, but I fear it is not possible to get them from seed.

JOHN F. COWELL.



#### Carnation Notes.

If it is the intention to try growing carnations under glass during summer, the young plants should be potted into 2-inch pots to start with, which is a better way than planting them in the benches or in flats, and they need to be potted on

and bedding plants, which at this time will be pressing hard for room, and as a rule the carnations have to make way for them. Now, if there is any call for carnation plants in pots in the spring, those taken from the benches can be made to fill the bill if we go about it right. They should be potted up in not too large pots, 6-inch is a nice size, given a good watering and placed in a shady location for a few days, where they will soon begin to make fresh roots and stiffen up and can then be brought to the light gradually, when they should be cleaned of all decayed leaves and staked and made as presentable as possible. After they are well rooted, and can stand the sun without wilting, an occasional watering of weak liquid manure will benefit them greatly.

We are getting along in the season now and the sun is growing stronger every day. In the middle of the day the temperature will rise very rapidly, giving our troublesome enemy the red spider every show to get in his work, and as it is too early to syringe, a sharp look-out should be kept, checking the insect by ample ventilation, for if this pest once gets a foot-hold, especially on such varieties as Daybreak and Jubilee, it will be a hard matter to get rid of it. The plants will also be taking up more water now and should never be allowed to get on the dry side, except during a prolonged period of warm, cloudy weather. If they are allowed to get too dry during bright weather the blooms will soon commence to diminish in size.

C. W. JOHNSON.

#### Lily of the Valley Culture.

ED. AM. FLORIST.—Referring to the article on lily of the valley culture on page 402 of your issue of November 27, I would like to ask Mr. Siebrecht why he would prepare one acre of ground for planting 50,000 pips when he advises planting them one inch apart in rows

utilized to save many dollars in labor. If in the culture of valley every sixth row is skipped in planting; a farm implement now in use on my place would save about three-fourths of the hand labor so far as hoeing is concerned. Then why should the planting all be done by hand, when a skillful plowman can mark out a row as straight as a man with a line and a spade? Then again, it is a very simple matter to use the plow to cover the pips after they are set, which of course must be done by hand. Then why use a fork to dig them when a small sub-soil plow will lift the pips so that the matter of digging is greatly simplified? I merely mention these few facts in the use of tools to show the florist that what has been considered a great drawback to the culture of valley is merely imaginary and from a lack of knowledge as to how much labor can be saved by the use of many farm implements at hand at the present time, and which are wholly unknown in Europe. There is no question about growing valley here for as Mr. Siebrecht states, it is done, and done well, and it can be done better than in Europe, for the simple reason that as Mr. S. states the pips can be handled without being kept out of the ground for so long a period as when they are imported.

As I stated at Providence last August it is only a question of a few years when the American florist will realize that he is sending to Europe and other lands for goods that can be grown better here and to a profit. Every dollar which we send out of this country for goods which can be produced here is a dollar (or nearly a dollar) lost to this country, for in the production of any article labor is the principal cost, and if we can save that dollar to the laboring people here, this country is so much the gainer, and every penny that we can keep here, is spent here and tends to make the trade at large so much the greater.

CHARLES H. ALLEN.

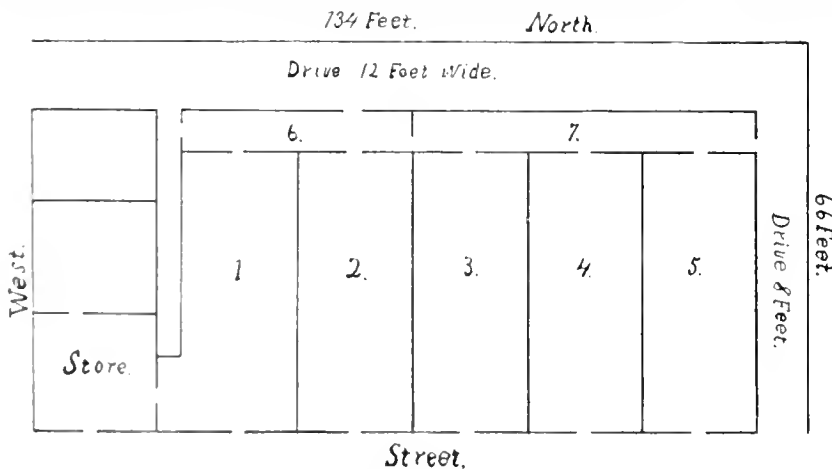
Elmira, N. Y.

The Elmira Horticultural Society has been organized with the following officers: President, Rev. E. M. Mills; vice-president, H. N. Hoffman; secretary, E. A. Higgins; treasurer, Mrs. A. F. Eastman. Grove P. Rawson is chairman of the committee on exhibitions and premium lists. Mr. Rawson's long and varied experience in such matters makes him pre-eminently the man to head the committee. Wonder what system of judging will be adopted.

Plan for a Greenhouse.

Having recently purchased a valuable site for greenhouse plant, on our main street, and wishing to use every space to best possible advantage, will some one competent kindly give me a plan, suitable for a florist's establishment for town of 6,000 inhabitants, where one, of course, is expected to grow a little of everything? At all events would like to grow a few roses, carnations, violets and chrysanthemums for winter blooming; and lettuce, celery, tomato, house and bedding plants for spring. I enclose sketch of plan; on the lot is a house and store combined, with a good cellar under the entire building. Would you heat with hot water or steam? As the lot is within fire by-laws limit, will not be allowed to use wooden walls. SUBSCRIBER.

The drawing shows the lot to be 66x134, with streets along the south and west sides. The house is at the south-west corner of the lot, and a drive is desired along the north and east sides.



PLAN FOR A GREENHOUSE.

This leaves for the greenhouses a space 54x104. While other combinations might be used, taking everything into consideration we recommend the following arrangement which will occupy all of the space except an alley four feet wide between the houses and the dwelling.

For every pair, horses 20x47, running north and south, with a head house 7x100. House No. 1 can be connected with the store and can be used as a show and packing room. House 2 to 5 can be arranged for growing any of the crops named, or they can be used as a potting room, or a place for propagating. If more room is needed the potting room can be added on the east. The walls of houses 1 to 5 can be of brick 1 1/2 feet high, with the rest of the frame from 10x12 feet, running from No. 6 should

have its south wall 10 feet high and the north 7 1/2 feet, and house No. 7 can have its walls 7 1/2 and 5 feet respectively.

The above number of houses may be more than the business will demand at first, but as arranged any number may be built at first and others added as needed.

Either steam or hot water can be used for heating and will give good results. The former will cost less to put in, but to secure as regular heat will require rather more attention.

If the boiler is to be under the potting room it would be well to have the walls of that part of brick and the roof of iron. On the east and south sides there should be two feet of glass below the plates, and the remainder of the wall can be of brick, grout, or wood covered with corrugated iron. L. R. TART.

Stop and Think.

Reports from most of the wholesale cut flower markets have not been very favorable this season. Week after week there appears to have been a surplus of stock in most of the large flower growing centers. This is the natural consequence of building more houses year after year without any thought as to where the purchasers for this tremendous output are to be found.

What shall you do this year? Shall you stop building and wait until the demand approaches somewhere near the supply, or will you go ahead and put up another block, hoping the market will be better or that your neighbor will cease erecting houses for the time being?

Is it not time for some of us to consider

unless he can be sure of a continuation of extra good crops or get hold of some other taking specialty that his competitors are not growing, and you have got to take something new to your market pretty often to make much money in the line of special things, for as sure as you allow time enough for others to have caught the idea and propagate the stock your profits will get beautifully less and soon disappear entirely, as with the great amount of surplus glass there is at present, the temptation to get into anything that has shown a profit for some one else is sufficient to swamp the market by overproduction.

Of course this whole question is one for each individual to settle for himself and everyone will do as he thinks best for his own interest, but if this great increase goes on much longer in the same proportion it has been doing for the last six or eight years, it will make serious times for our trade.

It has been asserted that the cheapness of flowers will popularize them, and this is true so far as it goes, but if to make them popular they must get so cheap that the producer goes to the wall, it will be something the average florist will fail to appreciate.

We cannot expect to have our good years through any such influence as is benefiting the wheat grower at the present time, the failure of the flower crops in Europe or the Argentine will not send up the price of flowers or give us a chance to get rid of the surplus and so pay off the mortgage. We must look to ourselves to either increase the demand or stop adding to an already overabundant supply.

Would it not be better and pay more to try and improve the quality of our output rather than build more houses and so keep on piling up stock which can find an outlet only through the fakir or rubbish heap.

It will seem to many that these views are pessimistic and the result of business disappointments, but the writer assures you that no one will be more pleased than he, to find that all this talk of overproduction, poor demand, and low prices continuing is a dream, and wake up to find that everything is lovely, and if there has been any dullness in our trade it was caused by the tariff legislation, too much talk about free coinage of silver, the attempts of the banks to corner gold, or the wilful neglect of the government in not having already annexed HAWAII.

New York.

OVERSTOCK OF FLOWERS BRINGS ABOUT A STAGNATION ONCE MORE.—INTERESTING MEETING AND EXHIBITION OF FARMERS' CLUB.—FIRE AT LEACH BROS.—ENTERTAINMENT FOR FLORISTS' CLUB'S FEBRUARY MEETING.—INTERESTING LOCAL ITEMS.

Business in the wholesale district is unsatisfactory again. That the recent brief period of activity was not based upon any permanently healthy condition was apparent as soon as good blooming weather set in. The sun came out strong and with it came a resumption of heavy shipments which put an end to the stringency without any further ceremony. Stock in all lines is of the finest quality, but there is far more than the stores can possibly assimilate. Weather favorable for the street sellers is now hoped for, as then the surplus will at least be taken care of, although at low prices. Naturally, bulbous stock is at the bottom of the list at present. \$12.50 a 1000 for

well the question of supply and demand before investing more of our capital and wearying our brains to increase this supply for which there is little demand? It seems to have become second nature with the growers after a prosperous year to spend the profits in increasing their plant, or as a Philadelphian once said "It all goes into sash," and of late years this habit seems to have grown on them to such an extent that they enlarge the place, whether they have just gone through a prosperous year or not.

For some time the grower who has made money has either had exceptionally fine crops or handled some specialty. It has not been the state of the market that has enabled him to secure a fair recompense for his work and outlay, then why should he increase the size of his place

bily of the valley is an actual quotation to-day. Roman hyacinths and freesias have got past their best season and what comes in now is of very poor quality. Tulips and Von Sions are improving all around. Keizerskroon tulips which Ford Bros. are receiving daily are unprecedentedly good for the season and are well worth a much better price than buyers can be induced to pay for them.

At the monthly meeting of the Farmers' Club of the American Institute, held February 9, Edwin Hoyt talked on "Pruning Trees and Shrubs" in the afternoon, and C. H. Atkins gave an illustrated lecture on "Mimicry and Fertilization of Orchids" in the evening, which was very entertaining. A fine exhibition of orchids was made by Max Nathan, C. G. Roebing, H. McKay Twombly, Lager & Hurrell, John Scott, New York Botanic garden, Siebrecht & Son and Julius Roehrs. William Turner contributed carnations, violets and American Beauty roses.

On Tuesday evening, February 1, at 10:30 p. m. a fire broke out in the end of one of the greenhouses of J. & R. Leach, Garfield avenue, Jersey City, and but for the timely alarm given by the watchman of a nearby hose factory, the result might have been very serious. Cause: woodwork in too close contact with the brick covering of a pipe boiler. Loss by burnt woodwork and broken glass probably \$75; loss in stock by smoke probably \$200. At the time of the fire the thermometer indicated 15° above zero. The house is 100 feet long and has an incline of four to five feet, and it was curious to note that the damage done to the plants in the lower end where the fire occurred was slight, whereas, at the upper, or far end, the destruction was very complete. The house was filled with carnations and spring stock.

The special attraction at the next meeting of the Florists' Club which takes place on Monday evening, February 14, will be a talk on "Bulb Growing in Holland" and "Plant Life in Jamaica" by Mr. John K. M. L. Farquhar of Boston. The lecture will be illustrated by a large number of stereopticon pictures and will be very entertaining. Together with the exhibition which will be made, it will afford an attraction which should bring out a large audience.

S. C. Nash has returned from Florida with a fine complexion and a graphic account of the terrible railroad accident in which he participated on his return trip.

Julius Lang had the misfortune to injure his ankle while stepping from a street car, and is confined to his home for the present in consequence.

Abrams' team ran away on Monday morning and when finally brought to a stop the wagon was a complete wreck.

Mrs. Warendorf is about to open a new flower store at the corner of Fifty-ninth street and Madison avenue.

Several of the Thirtieth street wholesalers have their windows filled with azaleas in bloom.

Visiting New York: Chas. H. Fleming, Bridgeport, Conn.

#### Philadelphia.

THE LILY DISEASE.—COBWEBS IN FLORISTS' WINDOWS.—TRADE GOOD.—PRICES REMUNERATIVE.—VIOLETS PLENTIFUL.—DAFFYS DOWN.—TEN PIN NOTES.

For the past week the lily disease has been the principal topic of discussion when growers meet. All agree that something must be done to insure a better percentage of healthy stock, or else but few men will care to engage in such a precarious

business. Notwithstanding the statements that are made regarding the stock from Japan, that they are absolutely free from disease, there is not a single lot out of a number of consignments received almost direct from there but what show traces of the malady, some plants being affected even unto death. The percentage of diseased stock, however, is not at all serious, and would probably not be noticed but for the more serious trouble among their Bermuda cousins.

The weather for the past few days has been that of the early balmy days of spring, which, together with the quantities of daffys, tulips and hyacinths about, makes one almost believe spring is here.

Cobwebs are hardly considered appropriate decorations for the florists' windows; the rafters in the cellar may be covered without comment, but the show windows, that reflect in so many cases the bright ideas of the proprietor or his clever artists, are generally free of such impediments. Pennock Brothers have a grand window, some sixteen feet long and six deep; this without any discredit to them has been for the past two weeks fairly littered with cobwebs. They were of the ornamental kind, however, and attracted considerable attention from the passing public. One week a large one took up the entire front of the window; it was made of baby cattleya ribbon, and in small bottles at the intersection of the threads there was placed one or two cattleyas. About 100 blooms were used. This week there are five webs in all, covering the side of the window as well as the front. These are decorated with daffys, double and single, and Campernelles.

Trade in our city is in keeping with the reports from other trade centers, good. Florists generally are busy, and all fine stock finds ready sale at presumably remunerative prices, as when a man gets what he asks for his goods he ought to be satisfied.

Prices are about the same as last week. Stock is a trifle more plentiful, but seems to be all used up. The rose most in demand is the Bridesmaid, after that the Beauty, and then the Bride. Perles scarcely sell at all.

Violets are plentiful, the large single varieties are now coming in in large quantities; the Princess of Wales is finest, followed by Luxonne and California.

Daffodils are down to \$4; tulips, \$3 to \$4; white hyacinths scarce at \$3 to \$4; valley plentiful at same price, bunches of two dozen have been sold by the fakirs at 25 cents, they were from the week before, and had a decided yellow cast.

Carnations are active at from \$1.50 to \$2, the former being the ruling price, a few fancies bring \$3. There is plenty of blooming stock in pots to be found in the stores and doubtless from now on until Easter (April 10), the assortment will increase.

Messrs. H. A. Dreer's obliging representative, Mr. Ruppert, spends Monday and Tuesday of each week in this city, attending to the wants of the retail trade particularly; the megaphone he carries is not used to proclaim loudly the merits of the stock he sells, but conceals generally a fine specimen of a palm, which when released speaks for itself, Mr. R. standing ready with pencil in hand in the meantime. Nothing the matter with Ruppert; "he's all right," and the same may be said of his stock.

When it comes to playing ten pins the commission men are regular fiends. Messrs. Smith, Dumont and Moss had a three cornered fight for the medal of the

third class last month. The ambition moved them all up, and now they will have to meet second class men and work harder than ever for medal honors. K.

#### Dahlia Notes.

##### THE DAHLIA IN MID-WINTER.

If the roots were packed firmly in dry earth no attention will be necessary until they are required for use in the spring. If they have been exposed to the air in the place of storage, a careful inspection at this season is desirable and profitable. Those thus exposed will often be found considerably affected by decay. A gathering of white mold about the tubers is a sure sign of it. A judicious use of a strong sharp knife will remedy most of the trouble and often prevent serious loss. If the decay is located in the lower portion of the tuber, it may be stopped by simply cutting away the affected part. Sometimes the heart of the tuber will be found affected also. In this case the heart may be cut out leaving the tuber in the form of a hollow shell. Ordinarily the cut will dry over and show no farther sign of rot. If a tuber is in a complete state of decay, remove it close to its point of union with the bunch. If the seat of decay is located in the upper portion of the clump, if seasonably examined, the stalks only will be found affected and the removal of the decaying stalk down as far as the trouble extends, into the very heart of the clump if necessary, will do away with all danger.

Great care must be taken in the latter operation not to remove any of the healthy tissue, particularly on the outside. At and near the points of union of the roots with the foot of the stalk are located the dormant buds from which the new growth is made and these must not be injured. An inch or two, more or less, removed at the lower end of the tuber matters little; an eighth of an inch or less removed at the upper extremity may render it worthless. Often decay will extend to the bottom of the stalk so that after it is removed, the roots will simply be attached by their crowns to a hollow shell, but so long as the buds on the external surface remain unharmed all is well. If the trouble has extended to the necks of the tubers, nothing can be done except to add them to your cow's ration if you possess one. Before rejecting an entire clump, however, careful examination should be made of every tuber as one or two may often be found which are all right.

This is the season also to begin the work of propagation by cuttings if one needs to multiply a variety more rapidly than can be done by division of the roots. The roots are started into growth in a temperature of 65° or 70° and when the shoots have made the third set of leaves they can be removed a short distance above the tuber. With a sharp knife the stalk is cut off just below the first joint, the first pair of leaves are cut away near the joint and the cutting is plunged into sand up to the second joint, care being taken to press the sand firmly against it. In about two weeks roots will have begun to form, and the cutting should then be potted off. After the young plant has become thoroughly established it should have abundance of light but the temperature should be very moderate, not exceeding that mentioned above in order that the growth may be stocky with short joints. From the pots the plants can be transferred directly to the open ground in planting season or delivered to customers. H. F. BURT

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Advertisements must reach us by Wednesday to se-  
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

**The Carnation Society Convention.**

The croakers are beginning to let their  
doleful tones be heard in the land, although  
spring is not yet here. The "Ananias  
Society" has gotten its prevaricating  
committee in good working order. The  
"Loyal Legion of Has Beens" are cheer-  
fully piping, "Don't go! Don't go! Every  
man attending the convention is just  
alive with rust spores, and you'll catch  
'em sure."

And the "most unkindest cut of all"  
comes from Boston! Ye gods and Boston  
little fishes! Cultured Boston! Classic  
Boston! Calm, staid, eminently-satisfied-  
with-itself Boston, pronounces these  
bitter words, "Rooted Cutting Society."  
In the words of the immortal Mulvaney,  
"I take shame of ye, Dinah Shad."

The story, in brief, seems to be simply  
this: In Boston, besides the little paper  
which is making the fuss, is a trade ex-  
hibition—and a few other things. It has  
always been supposed that the trade ex-  
hibition and the other things were append-  
ages of the paper. It now transpires  
that the paper is a tail attached to,  
and wagged by the trade exhibition body.  
It wags to this tune, "Don't go to the  
Carnation Society Convention; don't  
send your flowers there. Come and bring  
your flowers to our exhibition and let us  
(meaning the trade exhibition-trade-  
paper combination) get a little rake-off  
on the side." The latter part of the  
tune is of course inaudible.

All this leads to the asking of a few  
questions. Why is it that all the bright-  
est and most successful men in the trade  
would as soon think of not preparing a  
compost heap for next season as of miss-  
ing the convention? Why is it that the  
raisers of seedlings are so eager to exhibit  
their new productions there, and so  
anxious to get the society's certificates?  
Why are they so disappointed when they  
don't get them? Why is each exhibition  
of the Carnation Society the grandest  
display of boring varieties of carnations  
to be seen anywhere, or in any land?  
What are all these vilifiers of trade organ-  
izations doing to help the trade? What  
are they offering better in place of what  
they condemn?

The AMERICAN FLORIST urges each and  
every one of its readers, retail, wholesale,  
grower, or dealer in carnations, to go  
out of your shells, gentlemen. Don't  
tick your head out, but get clear out  
of a part of it. See what the other  
people are doing. Hear them talk. You  
call them vilifiers, but guarantee you the  
biggest and best success on your invest-  
ment.

Remember the date, February 17.  
The best time to go, and right and early  
in the morning is the best.

Don't remember the date of later this  
year, April 19. It's just too late!  
Work is done at night. Better a week  
too early than a week too late.

**New Carnations.**

Mr. Henry A. Niemeyer, Erie, Pa., has  
favored us with a box of his new seedling  
carnations. They stood the journey  
nicely which speaks well for their keeping  
qualities. Among them were Snow  
Queen, a very pretty white, Pluto, crim-  
son, Uncle Sam, white striped with pink,  
and Rob Roy, light red. We hope Mr. Nie-  
meyer will show a goodly bunch of each  
at the convention in Chicago.

**Carnation Empress.**

Mr. Wm. Swayne, Kennett Square, Pa.,  
sends a box of his new carnation Empress,  
stating that a part of the blooms had  
been cut a week before shipment. We  
could see no difference in the condition of  
the flowers except that those cut a week  
earlier were larger. The flower is a deep,  
rich crimson, very large, fringed, good  
form, good calyx, fragrant, and borne on  
a stiff stem thirty inches long. Mr.  
Swayne is on the right track. There is  
no longer any room for weak stemmed car-  
nations.

**Mr. Herr's Report on Carnations.**

The second edition of Mr. Herr's valu-  
able notes on carnations is just received.  
It is sent free on application, and should  
be in the hands of every one.

He places Flora Hill at the head of the  
whites, Lizzie McGowan a good second.  
We infer that he considers Harrison's  
White and Nivea as failures. He speaks  
well of the new candidates, Alba Superba,  
White Cloud, John Young and Evelina.

In pink Triumph leads, Victor second,  
Emma Woche third on the list on account  
of not being so large as the others.  
Abundance he thinks only suitable for pot  
plants. The new ones, Mrs. James Dean,  
Frances Joust, New York, Argyle and  
Mrs. Thos. W. Lawson are all favorably  
spoken of. Jubilee is the best scarlet  
among tested varieties, with Bon Ton  
and Fire Fly showing good points.

Among yellows, Eldorado though rusty  
is recommended, also Mayor Pingree.  
He urges trial of the new one—Gold  
Nugget. Tago is the only older crimson  
recommended. Empress is stated to be  
the finest thing Mr. Herr has seen in a  
carnation. Helen Keller is not recom-  
mended. Amazindy and Mrs. Bradt he  
says are good commercial sorts.

He does not like the color of Mrs.  
McBunney, but admits that his "taste  
may be perverted." Thos. Cartledge is  
strongly recommended.

**Cut Flower Price Lists Received.**

W. A. McFadden, Cincinnati; Bassett  
& Washburn, Chicago; W. F. Kasting,  
Buffalo; C. A. Kuchin, St. Louis; H. L.  
Sunderbruch Co., Cincinnati.

**Spiraea Anthony Waterer for Easter.**

ED. AM. FLORIST.—Should Spiraea  
Anthony Waterer, when it is wanted for  
Easter blooming, be planted out during  
summer and lifted and potted in fall?

H. E. B.

Spiraea Anthony Waterer may be  
planted out all summer and lifted in the  
fall when intended for Easter blooming,  
but it would be better to grow it in pots  
the year round, as most plants of this  
character flower best when treated in  
that way, the wood being in better con-  
dition, because more ripe, than when  
grown in open ground, especially if the

fall happens to be wet. This spiraea is  
well enough to make variety as an East-  
er plant, but it lacks brightness in color  
when compared with azaleas. L.

**Origin of Kaiserin Augusta Victoria.**

Replying to W. S., will state that all  
the information regarding this variety  
that I have been able to obtain is that it is  
a hybrid tea, and was introduced by  
Lambert & Reeter, Freir, Germany, in  
1891, but what its parents are, or who  
was the raiser, I have never seen in print  
that I can remember. Possibly Mr. John  
Cook, of Baltimore, can give the desired  
information to your correspondent, as he  
knows the introducers personally I be-  
lieve. JOHN N. MAY.

**Dry Stem Rot.**

ED. AM. FLORIST: Enclosed find  
a sprig of L. McGowan carnation that  
has a disease which has badly infested  
my house, more especially the whites,  
L. McGowan, Storm King and Alaska.  
I have lost but three or four plants  
entirely, but that ring will come around  
the bark of the stems. Sometimes they  
will wilt just before they are fully opened.  
J. E. R.

The trouble is doubtless dry stem rot.  
Only a certain portion of the plant is  
attacked, causing it to wither and dry  
up, and if allowed full sway will destroy  
the greater part of the bench. The only  
remedy is to cut away the affected parts  
of the plant as soon as it appears, not  
letting any part stand, but cut it close to  
the place which still seems unaffected and  
sound. Watch closely, and keep all  
moisture or dampness from the foliage,  
for this will quickly germinate any spores  
that may have ripened, and spread the  
disease. Extreme caution should be  
taken in selecting cuttings from this  
stock, as it will grow and produce more  
damaging results year after year. With  
care it can be worked off entirely.

F. E. DORNER.

**Primulas Drooping.**

ED. AM. FLORIST.—What is the cause of  
primulas (Chinese) suddenly drooping in  
leaf and flower over night? The house in  
which they are grown is kept at carnation  
heat, never over 65° daytime and  
never below 48° night temperature. The  
plants are fine and healthy, and shortly  
reotted to 4-inch pots, well set and  
growing. On examination we found  
nothing at roots, and no insect on leaves  
apparently. Only a few plants seem to  
be affected. SUBSCRIBER.

Primulas recently potted droop in this  
way when the soil is kept saturated for a  
few days at a time, but sometimes the  
trouble is traceable to the hard, impervi-  
ous character of the original ball, which  
becomes quite dry even when the new  
soil around it is sufficiently moist. The  
use of a dirty pot in the former potting  
will also bring about this result, the  
young roots at the side being much mudi-  
lated in the later transfer. B.

THE BESSY INSTITUTE.—In reply to  
"Subscriber," we have to state that this  
is not a botanic garden, but a school of  
horticulture connected with Harvard  
University.

If you are a paid up subscriber to the  
AMERICAN FLORIST, you are entitled to a  
five-line want advertisement free, any  
time before year's subscription expires.

Bulbs for Easter.

ED. AM. FLORIST.—When is the best time to bring tulips, narcissus and Dutch hyacinths into the greenhouse so that I may be able to use them for cutting at Easter, and at what temperature should they be grown? A. V.

In order to have these bulbs in bloom for Easter (April 10), it will be necessary to place them in a temperature of 45° at once, increasing the heat gradually to 65° and 70° in the course of the next two weeks. B.

Lynn, Mass.

Interest over the contest for City Forester was manifest by the large gathering of local florists at a public hearing given by the committee on public grounds at the City Hall on Friday evening, January 28.

William Miller, the present incumbent being charged with all sorts of misdemeanors, Mr. Miller came out with flying colors, receiving four out of the five votes. No charge was proven.

Gibbs Bros. report a good trade; they seem to be catching on nicely. Tapper Bros. show a fine house of Bridesmaid and Daybreak carnations. Among the local growers no specialty is grown; a general stock seems to be the order of things. Everybody has his overalls on for spring work.

The recent banquet of the Lynn Florists' Club at the residence of Wm. Miller was a grand success. We expect another soon.

Considerable damage seems to have been done by the blizzard. Miller & Sons lost a large lot of glass; Tapper Bros. a smoke stack and John Knight one greenhouse.

Hayden, of Marblehead is cutting Marie Louise violets that overlap a silver half dollar by considerable; they are fine.

TAP.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ndvs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-loc want adv free to be used at any time during the year.

SITUATION WANTED—By a first-class rose grower; 15 years' experience. Good references. Address D W, care American Florist.

SITUATION WANTED—By a competent store man, late with Friedland; reference given by Chicago wholesale florists. R A, care Am. Florist.

SITUATION WANTED—By a young man, 21; 3 years' experience in general greenhouse work, sober. Good references. Address KOMO, care Am. Florist.

SITUATION WANTED—By young man, age 21, three years' experience in roses and carnations. Best of references. Address W W, Box 163, Newtown, Pa.

SITUATION WANTED—By an A No. 1 manager of wholesale or retail store; twelve years' experience in prominent cities. Correspondence solicited. G, care American Florist.

SITUATION WANTED—As assistant gardener on private or commercial place; German, single, age 24. Best of references; able to take charge. Address BOX 828, Naugatuck, Conn.

SITUATION WANTED—By middle aged gardener and florist, with large experience both in this country and Europe; private place preferred. Address E M, care American Florist.

SITUATION WANTED—By A 1 general cutflower grower; good decorator. Recommendations furnished; German American; 30 years old. Address V G, care American Florist.

SITUATION WANTED—As foreman of a first-class cut flower growing establishment. In reply describe place and name salary. References NIXON H. GANO, Richmond, Ind.

SITUATION WANTED—By an experienced gardener and florist, to take charge of private or commercial place; age 38, married. Best of references. CHICAGO, care American Florist.

SITUATION WANTED—By a young man well up in the growing of roses, carnations, 'mums, etc., as assistant grower; age 24, single. Best of references. ASSISTANT, care American Florist.

SITUATION WANTED—By young man to learn the florist trade; sober and reliable; state terms. Address W. C. GREGORY, Box 92, Markham P. O., Ontario, Canada.

SITUATION WANTED—A competent seedsman wants situation with a reliable seed house; can speak Dutch, German or English; correspondence solicited. H, care American Florist.

SITUATION WANTED—A young man, 19, with 3 years' experience in florist store desires a place in greenhouse to learn practical floriculture. ALBERT FIEDLER, 824 Hanover St., Baltimore, Md.

SITUATION WANTED—As foreman in first-class establishment; specialties, roses, 'mums, carnations, orchids, etc.; life experience; well up in other branches of the profession. CO, care Am Florist.

SITUATION WANTED—By a young florist, 24, as assistant on private or commercial place, 6 years' experience in general greenhouse work; 3 years in last place. Address M. E. ARNOLD, Phillips, Wis.

SITUATION WANTED—As foreman in large cut flower establishment by an A 1 grower of roses, carnations, etc.; 24 years' experience; 12 years as foreman in large places. Best references. Address F B, care American Florist.

SITUATION WANTED—By practical florist of 17 years' experience, good cut flower grower, roses, carnations, etc. Competent to take charge; would work on shares. Reference and bond given. Address RELIABLE, care American Florist.

SITUATION WANTED—By single man, age 25, as second man or to take charge of small place; good grower of cut flowers and bedding plants, steady and reliable; disengaged March 1st. Address R L, care American Florist, Chicago.

SITUATION WANTED—As foreman by practical florist and grower; specialty No 1 roses, carnations, 'mums, violets, general stock, etc. Now disengaged; age 28. Best references. Address W H, care 14 E. Main St., Alliance, Ohio.

SITUATION WANTED—By practical florist and plantsman of experience and executive ability in all the requisites of commercial places; general propagation, inside and outside operation. For more particulars address F T, care Am. Florist.

SITUATION WANTED—March 1st, as working foreman or propagator, by first class, all-round grower, wide experience in Europe and United States; specialties, roses, carnations, violets and adiantums; Dane, single, 28; state terms. N B, care Am Florist.

SITUATION WANTED—As foreman with some refined party by a practical grower of roses, carnations, violets, 'mums, palms, ferns and general stock, forcing of bulbs; a life experience; references O K. Address FOREMAN, care American Florist.

SITUATION WANTED—By christian young man as foreman or manager of some first class place; ten years' eastern and western experience, good cut flower grower; wages must be good; western states preferred. References exchanged. Address I, 11 W, care American Florist.

SITUATION WANTED—As foreman in cut flower establishment, mostly roses and carnations; must be up to date in conveniences; by all-round man, single, American, nine years' experience; don't use tobacco or drink; west preferred; good wages expected. References ROSES, 2640 Cottage Grove Ave., Des Moines, Ia.

SITUATION WANTED—As foreman or manager in large commercial place by a first-class grower of roses, carnations, 'mums and general stock; life experience, married, age 36; has been foreman in large establishments for the past ten years; only reliable parties who wish a first-class man need answer; best of references. Address ROSE GROWER, care American Florist.

WANTED—Responsible florists to work. Send two 2-cent stamps. E. A. TAYLOR Asheville, N. C.

WANTED—A good, all-round florist, single, reliable, temperate man, with good references. Address O. L. BAIRD, Dixon, Ill.

WANTED—The address of Carl Jorgensen, Dane, Amurgen. Address L. JENSEN, South Butte, Mont.

WANTED—Young man to take charge of florist business and take interest in business. Address NEW YORK, care American Florist.

WANTED—General greenhouse man well posted in ferns and palms. H. F. HALE, 548 W. Madison St., Chicago.

WANTED—Man capable, energetic and Christian, to take charge of 6,000 feet of glass, flowers and vegetables. PARK GREENHOUSES, DuBois, Pa.

WANTED—A young man with 2 or 3 years' experience in a commercial place; must be temperate and reliable. Address R. S. RASMUSSEN, Waterbury, Conn.

WANTED—To know the whereabouts of C. G. Kraemer; was last heard of from Santa Barbara, Cal., February, '94. Will hear of something to his advantage. ALBERT ZIMMERMANN, 750 B North Talman Ave., Chicago.

WANTED—A competent man for cut flower department and making up floral designs and bouquet work; also one that understands decorating and general greenhouse work. Apply CHARLESTON GREENHOUSES, 30 Meeting St., Charleston, S. C.

WANTED—A good, sober, middle-aged man, either single or married, to grow 'mums principally; must come well recommended. A steady prince for the right person. Address SANZ & NEUFNER, 582 Fourth Ave., Louisville, Ky.

WANTED—Foreman on commercial place, California; must be experienced in handling men; with a questionable knowledge of propagating and growing, both inside and out; competent to take charge. Good habits and best of references. Address CARNATION, care American Florist.

WANTED—Young man thoroughly experienced in the best class of retail florist business; must be first-class in window, table and wedding decorations, also design work. Apply with references, ability, etc., stating wages expected. J. H. DUNLOP, 445 Yonge St., Toronto, Can.

FOR SALE—One Alaska refrigerator in first-class condition. JOHN H. ORTH & Co., McKeesport, Pa.

FOR SALE OR RENT—Greenhouse and cottage on C. & N. W. R. R., 35 miles from Chicago; will make easy terms on sale or low rent. E. W. UPHAM, Waukegan, Ill.

FOR RENT—Seven greenhouses, stocked; dwelling and land, steam heat; convenient for Baltimore wholesale market, and fair local trade. Address MARYLAND, care American Florist.

FOR SALE—Greenhouse plant of 5,000 feet of glass in Jamestown, N. D.; price \$1,500; 1/3 cash, balance may be paid in cut flowers. Address W. W. SEEKINS, 321 E 3rd St., Duluth, Minn.

FOR RENT—Greenhouse, 6,000 feet of glass on Main street; street cars pass the door; store and dwelling house connected with same place. \$35 per month. P. N. SOETGA, 182 Cedar Ave., Cleveland, O.

FOR SALE—Five Greenhouses, heated with hot water; all in good condition, well stocked with the best carnations and other stock in general seen; 6 1/2 acres of land, all kinds of soil on same; a bargain for any good man; poor health is cause for selling. MRS. H. C. BUCHELER, Oconomowoc, Wis.

GREENHOUSES FOR SALE. A rare opportunity: Seven greenhouses near Chicago for sale cheap. Owner has other interests requiring all his attention. A reliable man can have easy terms. For further particulars address L. D, care American Florist.

TO EXCHANGE. Cannon Chas Henderson, dry roots, for Dahlla or Madeira Vine tubers, shrubs or Climbing roses; or will sell for cash at 25 cts per clump (large). W. P. RANSON, Junction City, Kansas.

FOR SALE or rent with privilege of buying—established greenhouse property consisting of four houses about 100x35 feet each; boiler house and pack rooms; 12-room modern dwelling, two acres land; 10 miles from Philadelphia, near R. R. station, steam heat; splendid chance for right party. JAS. T. SULLIVAN, Moorestown, N. J.

PIPE WANTED. Second-hand Hittchings' or Weathered's cast 4-inch pipe, 2,000 feet (or any part thereof). Give CASH price 1. 0. b. J. C, Station A, 79 Pine St., New Haven, Conn.

FOR SALE. Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write ELLIS & POLLWORTH, Milwaukee, Wis.

Valuable Greenhouses FOR SALE. A Rare Opportunity—Seven Greenhouses in St. Louis County with or without stock, for sale cheap. Owner has other interests requiring all his attention. A bargain. For further particulars address E. H. MICHEL, Care of St. Louis Cut Flower Co., 1620 Olive St., - ST. LOUIS, MO.

For particulars write ELLIS & POLLWORTH, Milwaukee, Wis.

Valuable Greenhouses FOR SALE. A Rare Opportunity—Seven Greenhouses in St. Louis County with or without stock, for sale cheap. Owner has other interests requiring all his attention. A bargain. For further particulars address E. H. MICHEL, Care of St. Louis Cut Flower Co., 1620 Olive St., - ST. LOUIS, MO.

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Fine well cured Pearl Tuberoses Bulbs, per 1000..... \$ 7.50  
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500,000 FEET OF CLASS.

We can fill all orders on short notice with all leading varieties of Roses and Carnations.  
We ARE Headquarters for fine AMERICAN BEAUTIES Give us a trial and convince yourself.  
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# W. E. LYNCH, Consignments Solicited. CUT FLOWERS.

All Florists' Supplies.

19 & 21 RANDOLPH STREET,  
Fine Stock a Specialty. CHICAGO.

# Wholesale Flower Markets

CHICAGO, Feb. 11.

Roses, Beauties . . . . .	per doz, 2.00@5.00
" Brides . . . . .	4.00@ 8.00
" Meteors, Bridemaid, Kaiserin . . . . .	4.00@ 8.00
" Perle, Gontiers . . . . .	3.00@ 6.00
" La France, Testout . . . . .	5.00@ 10.00
Carnations, common . . . . .	1.00@ 2.00
" fancy . . . . .	2.00@ 5.00
Violets . . . . .	2.00@ 1.00
Narcissus, Roman . . . . .	2.00@ 3.00
Callas . . . . .	10.00@ 12.00
Harrish . . . . .	12.00@ 15.00
Valley . . . . .	2.00@ 3.00
Tulips . . . . .	1.00 @ 5.00
Von Slon . . . . .	2.00@ 2.50
Hyacinths . . . . .	2.00@ 10.00
Adiantum . . . . .	4.00@ 10.00
Smilax . . . . .	10.00@ 12.00
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WIRE WORK  
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DON'T FORGET that we are at the old number,  
126 Dearborn St., Chicago.

Write for special quotations on large orders.

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Prompt attention to shipping orders.

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Successors to J. B. DEAMUD & CO.,  
GROWERS and  
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HEADQUARTERS FOR AMERICAN BEAUTIES.

**WINTER & GLOVER,**  
21 Randolph St., CHICAGO.  
HIGH GRADE CUT FLOWERS,  
PACKED RIGHT,  
so they will reach you in just as good condition as they reach us.  
WIRE DESIGNS: A Full Line. Write us for our illustrated Catalogue.  
Mention American Florist.

Always mention the American Florist when you order stock.

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Wholesale Florists  
111 West 30th Street, NEW YORK.  
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J. B. DEAMUD, Mgr. CHICAGO.

## CHOICE CUT FLOWERS.

Roses in variety.  
Carnations ...IN THIS MARKET.  
THE BEST  
GENERAL LINE OF SHIPPING FLOWERS.

WILD SMILAX.



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Prompt Attention to all Orders.

# Now or Never

I have been thinking of you for some time and I am sure you are willing to supply me with the following quantities of the following varieties of flowers for the month of February and stand by me.

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SPECIAL REPORTS

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HEADQUARTERS FOR AMERICAN BEAUTIES.

# HARDY CUT FERNS

\$1.00 Per Thousand.



FANCY

DAGGER

I have been thinking of you for some time and I am sure you are willing to supply me with the following quantities of the following varieties of ferns for the month of February and stand by me.

L. B. BRAGUE, Hinsdale, Mass.

Please mention the American Florist.



# MacDONALD & McMANUS

Supply Orchids every day.

Only House in New York handling Extra Fancy Stock for Special Occasions.  
Telephone 2778--38th Street. 50 West 30th Street, NEW YORK CITY.



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Telephone, Long Distance.

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THE BEST MARKET IN NEW YORK.

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Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.  
38 West 28th St., and Cut Flower Exchange,  
Tel. 961 18th Street. NEW YORK CITY.

## Wholesale Flower Markets

NEW YORK, Feb. 9	
Roses, Beauty.....	10 00@25.00
" Brides, Bridesmaid.....	3 00@ 10 00
" Teatout, Carnot.....	4 00@ 12 00
" Morgan, Meteor.....	3 00@ 10 00
Carnations.....	1 00@ 2 00
" fancy.....	2 50@ 4 00
Valley.....	2 00 @ 4 00
Mignonette.....	2 00@ 6 00
Violets.....	.40@ 1 00
Harrill.....	8 00@ 10 00
Tulips.....	1 50@ 2 00
Smilax.....	5 00@ 10 00
Cattleyas.....	15 00@ 35 00
Daffodils, Jonquilla.....	1 00@ 3 00
BOSTON, Feb. 9.	
Rosea Beauties.....	20 00@75.00
" Perle, Niphotos.....	2 00@ 4 00
" Bride, Bridesmaid, Morgans.....	4 00@ 12 00
" Carnot Meteor.....	6 00@ 12 00
Carnations, ordinary.....	1 00@ 2 00
" fancy.....	2 00@ 3 00
Valley, Daffodils.....	3 00@ 4 00
Violets.....	.35@ .75
Hyacinths, Narcissus, Freesia.....	.75@ 2 00
Tulips.....	3 00@ 4 00
PHILADELPHIA Feb. 9.	
Roses, Beauties, per dozen.....	3.00@8.00
" Teas, firsts.....	7.00@21.00
" select.....	12.00@ 15 00
Carnations.....	1 50@ 3 00
Valley.....	3 00@ 4 00
Violets.....	.40@ 1 00
Narcissus.....	2 50@ 3 00
Hyacinthia.....	2 00@ 3 00
Harrill.....	10 00@ 12 00
Daffodils.....	4 00
Tulips.....	4 00

## John I. Raynor,

49 WEST 28th STREET,  
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SPECIAL EXTRA STOCK OF  
AM. BEAUTY, METEOR,  
BRIDESMAID, BRIDE.  
Record Breaking Carnations  
ALL THE YEAR ROUND.

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Wholesale Florist

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**WALTER F. SHERIDAN,**  
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**FLORIST,**  
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Roses shipped to all points. Price list on application.

## Rose Growers

Will find a good market and good returns for their stock at....  
**JULIUS LANG'S**  
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## Edward C. Horan,

34 W. 29th Street, NEW YORK,  
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Careful Shipping to all parts of the country  
Price list on application.

# CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.

WELCH BROS., PROPRIETORS.  
Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.  
THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

**J. K. ALLEN,**  
Wholesale Florist,  
57 West 28th Street, NEW YORK,  
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BEAUTIES AND VIOLETS, SPECIALTIES.  
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**JAMES M. KING**  
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Good Money for your Flowers.  
Good Flowers for your Money.  
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CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

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Cut Flowers AND Florists' Supplies  
WHOLESALE.  
67 Bromfield St., BOSTON, MASS.

Wholesale Florists JOBBERS IN  
ALWAYS ON HAND:  
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Cut Flower Consignments Solicited. Best market.

**JOHN YOUNG,**  
ROSES, CARNATIONS, VALLEY  
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51 W. 28th Street, NEW YORK.  
Price list on application.

**FRANK MILLANG,**  
CUT FLOWERS,  
WHOLESALE COMMISSION,  
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Cut Flower Exchange, NEW YORK.

**WM. C. SMITH,**  
Wholesale Florist,  
40 So. 16th St., PHILADELPHIA.  
Consignments Solicited. Special attention given to shipping orders  
Long Distance Telephone 508 A.

Florists' Ferneries.

The increased use of ferns for house decorations within the past ten or twelve years has been remarkable. They have steadily grown in public favor, rivaling palms, rubbers and other plants used for this purpose. Nephrolepis and other large ferns are now largely sold for filling jardinières where formerly only palms or rubbers were used, though the great demand is for small ferns in two and three inch pots for filling ferneries.

Of the many ferns in cultivation there are but very few that, under the most favorable circumstances, would live for more than a short period in the hot dry atmosphere of a dwelling heated by a furnace or steam. We are not only expected to furnish plants that will stand heat and dry air, but they are required to grow in a shallow dish, generally without drainage. Therefore great care should be taken in the selection of the most suitable varieties. The following will be found serviceable as center plants in small ferneries, or in those of large size where tall subjects are needed: Nephrolepis davallioides furcans, N. exaltata Bostoniensis, and N. Philippinensis. N. davallioides furcans can be as easily grown as Pteris serrulata, and when treated in the same way is one of the most useful and beautiful of all ferns, being salable from the time it is established in 2-inch pots, and in all larger pots up to 12-inch. If a plant gets too large, the size can be readily reduced by dividing it.

Among other good sorts for this kind of work are Cyrtomium falcatum, one of the very best ferns for house culture; Lastrea aristata variegata, good variegated; Pteris adiantoides, dark green foliage; P. erecta, and its varieties magnifica and albo-lineata, the last the best variegated fern in cultivation; P. serrulata and its varieties cristata, cristata compacta, cristata fastigata, cristata parvula, cristata plumosa, cristata magnifica, major, and major cristata; P. hastata, P. palmata, and P. Victoria. This list of ferns cannot be duplicated by another of equal size and merit from the hundreds of varieties known in gardens, and they will come as near standing the disadvantages of house culture as any fern can come.

There always has been, and no doubt always will be, a class of customers who prefer adiantums. The majority of these will be suited with A. cucullatum, but for others it would be well to have on hand a few varieties of A. Capillus Veneris. Several of these varieties, including fissum, grade grande, imbricatum and magnifera, are better for ferneries than A. cucullatum. A number of other plants can be mixed with ferns in these little ferneries to good purpose. Small palms are quite generally used for center plants, and Cocos Weddeliana is one of the best. Peperomia Saundersii is a good house plant, withstanding the dry air and gas much better than the ferns, and very easy to grow and propagate. When we clean the peperomias or have a plant broken in any way, the leaves are thrown under the ground, or buried in a place reserved for this purpose, and here they soon develop little plants without much further attention. A small portion of P. Saundersii may be used for center plant for a fernery, and the small best plants may be used around the center plant with good effect.

Patience and the ground or the variegated foliage are also included in this work. These plants, however, require rather more heat than most of the other mentioned. (T. A.)

Wholesale Flower Markets

CINCINNATI, Feb. 10.

Roses, Beauty select	30.00@40.00
" " medium	15.00@25.00
" " Brides	5.00@7.00
" " Bridesmaids	5.00@7.00
" " Meteors	6.00@8.00
" " Perles	4.00@5.00
Carnations	1.50@2.00
" " fancy	3.00@4.00
Valley	2.00@3.00
Narcissus	4.00
Daffodils	4.00
Violets	.75@1.00
Harrisii	12.50
Callus	8.00@10.00
Tulips	3.00@4.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, Feb. 10.

Roses, Beauties	15.00@50.00
" " Meteors	5.00@8.00
" " Brides, Bridesmaids	5.00@8.00
" " Perles	4.00@5.00
" " Wootton	4.00@5.00
" " La France	5.00@10.00
" " Kaiserin	4.00@10.00
" " Carnot	6.00@12.00
Carnations	2.00@3.00
Violets, California	.30@.50
" " single	.10@.20
Valley	3.00@4.00
Harrisii	10.00@12.50
Callus	8.00@12.50
Tulips	2.10@4.00
Narcissus, Romans	2.50@3.00
Smilax	12.50@15.00

BUFFALO, Feb. 10.

Roses, Beauties	20.00@75.00
" " Brides, Bridesmaids, Meteors	6.00@10.00
" " Perles	4.00@6.00
" " Niphetos	4.00@6.00
" " Kaiserin, Mermets	6.00@12.00
Carnations extra	2.50@3.50
" " ordinary	1.50@2.50
Valley	3.00@4.00
Violets	1.00@2.00
Romans	2.00@4.00
Harrisii	15.00@20.00
Smilax	12.50@15.00
Adiantum	1.25
Asparagus	50.00@75.00

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**BULBS**  
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MILWAUKEE WIS.

**Asparagus Plumosus Nanus.**  
Strings 8 to 10 feet long,  
50 CENTS.  
**W. H. ELLIOTT,** Brighton, Mass.

## Boston.

FEBRUARY EXHIBITION AT HORTICULTURAL HALL. — FINE CARNATIONS. — BUSINESS DULL AND OUT OF TOWN SHIPMENTS STOPPED BY THE STORM. — A FINE EASTER STOCK AT WM. EDGAR'S. — COTTER'S SUCCESS WITH SUMMER ROSES. — UNUSUAL PROCEDURE IN MASSACHUSETTS HORTICULTURAL SOCIETY. — GREENHOUSES CRUSHED. — PROTECTING THE MAY-FLOWER.

The February exhibition at Horticultural Hall last Saturday brought out two fine collections of carnations from Wm. Nicholson and M. A. Patton. Many of the recent introductions, as well as older varieties, were included in both collections and the quality was good excepting for a noticeable weakness of stem in all, caused by the shade from the heavy snow banks on the glass. Of the old varieties none looked better than Thomas Cartledge, which apparently does not belong in the "run out" class. Carl Blomberg showed a fine group of orchids comprising many cattleyas and cypripediums, besides dendrobiums and phalenopsis. In the class for camellias James Comley was the only competitor, and no one tried for the freesia premiums. The displays of forced vegetables were unusually good.

The effects of the recent wild weather are seen not only in the broken trees and crushed greenhouses but in the accumulation of flowers at the various wholesale stores, the receipts being in excess of the outlet, notwithstanding the decreased production resulting from the cold and absence of sunlight. The difficulty in moving even a limited stock when transportation to outside points fails, and street dealers are unable to work, is an impressive object lesson and is an indication of what might be expected if the wholesalers ceased to ship flowers away from this market and the flower growers were forced to depend upon the legitimate local retail trade. Shipments north and east have been impossible all through the past week and carnations, even, are piling up hopelessly. When carnations go that way at this season the story as to other flowers is easily understood. In short, business has been very disappointing of late.

Wm. Edgar has as nice an Easter stock in prospect as is ever seen in this neighborhood. Azaleas rhododendrons and genistas will be very fine; lilies ditto. Some big pots of longiflorums, six and seven bulbs in each, are especially admired and the entire stock of lilies excites surprise on account of absence of evidences of disease until one is told that the usual proportion of sickly lilies was in evidence the same as ever, but that as soon as they showed, they were promptly dumped. Mignonette, Allen's Defiance, which looked so handsome here not long ago shows considerable trace of disease now, but Mr. Edgar attributes this to injudicious watering rather than to any inherent weakness in the mignonette. Young ferns by tens of thousands are rapidly coming forward and it is consoling to know that at last Boston is in a fair way to have a home establishment with sufficient enterprise to supply all the young ferns needed for local demands.

Lawrence Cotter is entirely out of the Easter hustle this year. The houses, five in number, that in previous years were devoted to chrysanthemums in fall and then filled with Easter stock, were planted with Kaiserin Augusta Victoria and Meteor roses for summer consumption and gave a good crop until Decem-

ber when they were cooled off and the plants given a chance to take a good rest. They are now breaking again and give promise of a grand crop. Mr. Cotter claims that this method of using the houses has proved much more profitable in the aggregate than the old way.

The Massachusetts Horticultural Society has suddenly developed a great interest in the state forests and street trees. Very much to the Society's credit is this, but when in an organization such as this, with so many noted and able arboriculturists of long standing as members, it transpires that of a special committee of five on this subject, two members, one of whom is the chairman, only joined the society on the day on which the committee was constituted, comment must be expected. There are some things that the Massachusetts Horticultural Society has in the past wisely abstained from, and conservative members will now keep their eye on the woodpile in which, maybe, a colored gentleman is concealed.

In addition to those mentioned in last week's notes as having sustained loss on account of the storm it is learned that David Gray of Brockton suffered heavily; his greenhouses being badly wrecked and the contents seriously damaged.

A resolution has been introduced into the Massachusetts House of Representatives, providing for the protection of the trailing arbutus.

W. R. Smith of Washington will talk on "Trees in Streets and Elsewhere" at Horticultural Hall, on Saturday, February 19.

Fred W. Hyatt, Beacon street, has failed.

Visited Boston: H. Bayersdorfer, Martin Reukauf, Philadelphia; Paul M. Pier-son, Scarborough, New York.

## Mushroom Growing at Kennett Square, Pa.

The mushroom industry in this section has been made quite a feature, and pretty generally entered into the last few years in connection with carnation growing; so much so in fact, that it has ceased to be a paying crop, all things considered. It must be borne in mind that a great many of our florists—growing mushrooms—have farms connected with the greenhouse business; which, with the extra cheap labor to help out in preparing the material, lessens the cost of production very materially; otherwise I doubt if there would be very many grown.

The manure used is not entirely wasted in the growing of mushrooms, however, for it makes an excellent potting soil and top dressing for any growing crop. The preparation, housing, etc., is quite expensive, and the chances of failure about as good as of success.

The temperature of a carnation house is a little low for best results in growing the mushroom. The best results are obtained in houses built separately for them. These are under better control, and an even temperature of 56°, best suited to them, can be maintained.

A few years ago before so many were grown, when 50 cents per pound was realized, they were a fairly paying crop. I doubt very much if they can be grown for less than 25 cents per pound. Last season they reached the low figure of 10 cents, which was a losing price for the crop.

WM. SWAYNE.

LENOX, MASS.—J. R. Paul has just secured a patent on a shade for green-houses.

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BUFFALO, N. Y.

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Chicago.

BUSINESS GOOD AND PRICES HIGHER.— WASHINGTON PARK CONSERVATORIES OPEN EVENINGS—PINK TULIPS IN FAVOR.—MEETING OF THE FLORISTS' CLUB.—VISITORS.

Business during the past week has been good. There is a marked improvement in demand. All good stock, except bull stock, has been cleaned out by ten o'clock every day.

There are not enough roses to supply the demand, especially of Brides and Maids. Meteors are more plentiful than other roses, and less in demand on account of poor color, but as roses are scarce all are disposed of. Carnations, especially good Tidal Waves, are scarce. Violets, which a week ago were accumulating, are now sold out clean every day, and at an advance of 25 cents per 100 over last week's prices.

The Chicago growers ought to be well satisfied with the prices obtained this winter for stock. A comparison of price lists for the past seven years for the month of January shows that they averaged higher in January, 1898, than in 1892, which was the highest in the years compared.

Retail trade is fairly good; there are no large parties or great demands from any particular source, but a good steady business.

The Washington Park conservatories are now lighted by electricity and opened to the public in the evening. Crowds are in attendance each evening, and it is the intention to continue the practice as long as the interest keeps up. Mr. Kanst feels well pleased with the success of this experiment.

John Zeek, manager for Reinberg Bros., has been sick since last Saturday.

Klehm has made a hit with his pink tulips; pink is the only color that sells readily this season.

Weber Bros., of Bowmanville, are sending to A. L. Randall exceedingly fine carnations. Their McGowan are the best seen in the market.

The Florists' Club meeting Thursday evening was quite largely attended, it being retailers' night. It was expected that the retailers would take the opportunity to discuss their grievances against the growers and commission men. The old subject of pickled stock which is ever fresh in the minds of the retailers after the holidays, was thoroughly and good naturedly discussed, and also the necessity of having all flowers which are sold by the bunch full count and better graded.

D. McRorie, with W. A. Manda, of New Jersey, visited the club.

P. J. Hanswirth has the decoration for the banquet of the Marquette Club at the Auditorium hotel Saturday night. Covers will be laid for 1200.

Philadelphia from a Grower's Point of View.

Messrs. Thomas Meehan & Sons have a white sport carnation Della Fox. I hope they may like it and that it may prove to be a novelty.

The Blue argentea is spoken of frequently these days. I grew it in the seventies and at that time it was subject to a rust which affected it similar to the same trouble on geraniums and heliotrope. Now, due to the gray blights to the growers, it is a much more serious than the rust of the past.

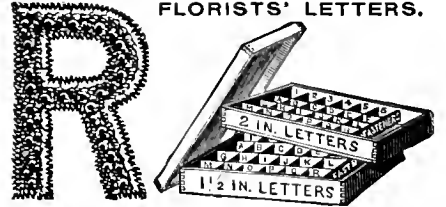
In a report published by Mr. E. F. Marquisee's Department of Agriculture, and that he does not believe in the possibility in carnations, but he is assigned to the belief that the part of the effect of loss of

vitality, causing the parent to produce something dissimilar and weaker than itself. It would be interesting if Mr. Marquisee would particularize and specify why he thinks so, producing facts to bear him out in his assertion. Proofs in abundance, I think, can be produced that either he or the reporter has made a mistake. Lots of erroneous information is spread broadcast in just that reckless way of speaking and writing.

At the April meeting of the Florists' Club will the symposium on the Liliun Harrisii disease take place, and not as has before been stated at the March meeting. Wm. P. Craig is down to tell us all about what he saw at the annual meeting of the American Carnation Society, to be held February 17th, at Chicago, and his impressions of the great West. An instructive and entertaining paper is expected.

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**St. Louis.**

MARKET REVIEW.—CLUB NOTES.—PERSONAL MENTION.—THE BOWLING CLUB.

Market opened up for the week with a good demand and a very limited supply of stock. The shortage of stock still continues with the outlook for heavier receipts very discouraging. The heavy snows throughout the Indiana flower belt which to a great extent supplies this market, were a hindrance to shipment. The home growers report that their crop will be on again in about ten days or two weeks.

Beauties were in good demand, stock was very poor and receipts light; Kaiserin and Brides sold better; Bridesmaids were in good demand; Carnots were called for, with none in the market; Meteors continue to arrive in poor shape, with a big demand for same; Perles were more plentiful; Woottons sold well. California violets went lower this week than at any other time this season. Double violets were neglected. Single violets and southern stock sold cheap. Harrisii lilies were scarce with a good demand. Callas sold well and supply was good. Romans and narcissus were poor sellers this week. Smilax was plentiful and selling cheaper. Carnations are in good supply. The bulk of carnations arriving here are very poor, and the wholesaler has a hard time disposing of this kind of stock. Good stock sold readily and at fair prices.

Mr. J. J. Bencke who was elected manager of the next flower show has appointed his staff of officers to act as chairmen of their respective committees. Mr. Emil Schray, premiums and awards; R. F. Tesson, hall and printing; Mr. Wm. Young, subscriptions and prizes; Carl Beyer, advertising; C. C. Sanders, finance; F. Fillmore, special prizes.

The second annual smoker of the St. Louis Florists' Club was held at the Mercantile Club, and all members of the club and all the florists of the city were invited to attend. Plenty of lunch and refreshments were served, and all were called upon to make a few remarks appropriate to the occasion. Altogether the smoker was a success in both a social and business way.

Mr. Dan'l McKorie, the popular and rotund salesman was with us the last few days. Outside of corraling all the orders here he also showed the St. Louis boys how to roll cocked hats.

Mr. Ed. Buechel, the genial manager of the Riessen Floral Co., reports business good, and is kept busy this week with one of the biggest decorations of the season for the Liederkranz masquerade ball.

The meeting of the bowling club despite the cold weather was well attended and some good scores were made. The boys may possibly make up a team to roll the Chicago team during the coming carnation meeting at Chicago. A. J. B.

**Cincinnati.**

The supply of roses has been somewhat better than in the previous weeks. Choice Beauties have been difficult to obtain; there are enough second and third class to meet the demand. Teas are coming in more plentiful. Carnations have been sufficient and find a ready sale. Marie Louise violets, choice quality, are still sought after, but inferior grades move slowly. Tulips are improving, with longer stems. Our wholesale houses report a fair shipping trade the past week.

On February 5 a special meeting was held at the society's club room. The object of the meeting was to make final arrangements in regard to the Chicago

Carnation Convention. Mr. E. G. Gillett was appointed a committee on railroad rates. The time of leaving the C. H. & D. depot will be 8:45 p. m. February 16. Mr. Albert Sunderbruch was appointed a committee to notify Mr. Hadley in regard to space for the Cincinnati exhibit. A suitable badge was next discussed, and Mr. Witterstaetter selected to have full charge of procuring same.

Mr. J. M. Gasser, of Cleveland, O., was a visitor at the meeting. He spoke entertainingly regarding trade in his city, also the marked difference he noticed in carnations seen here as compared with that of his own city.

Among those who will attend the carnation convention at Chicago are Mr. Bartlett (who makes bone flour without acid) A. Sunderbruch, H. Wallman, R. Witterstaetter (Evelina), Ben George, J. Schuman (Newport, Ky.), E. G. Gillett, J. Petersen, R. H. Warder, Supt. of Parks,

Gus Adrian, W. Murphy and E. H. Giesy. That long bundle E. H. G. is going to bring contains sash bars; no sap in the bars nor the man either. H. SCHWARZ.

**Remedy for Scale.**

ED. AM. FLORIST: I saw recently in the New York notes that growers of dwarf oranges are troubled with scale. An effective remedy used here by spraying is Babbitt's lye, one pound, to twenty gallons of water. This neither injures fruit or foliage, but it may be well for growers to pack the surface of pots with sphagnum, as too much lye may be injurious to plants in pots. C. H. CAMPBELL.

HAGERSTOWN, Md.—Adolph Jaenicke has made a voluntary petition in insolvency.

**Palmer's Hot Bed Mats** **FROST PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

**Indestructible, Cheap and Warm**

**W**ILL not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

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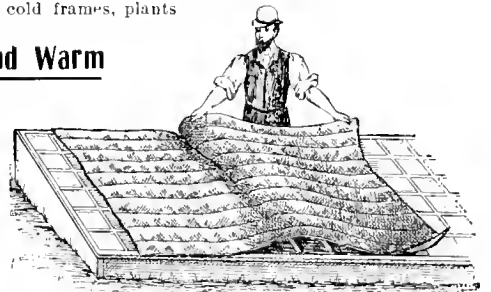
Size 40x76 inches, 50 cents each.  
" 76x76 " 75 " "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.

Size 40x76 inches, \$0.75 each.  
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Made any length, 76 inches wide, at 16 cents per running foot.



No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.

Size 40x76 inches, \$1.00 each.  
" 76x76 " \$1.25 to \$1.50 each.

Made any length, 76 inches wide, at 20 cents per running foot.

That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.

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ONION SETS are now quoted at Chicago: yellows, \$2. reds and whites, \$2.50 to \$2.75.

THE sweet corn shortage is becoming more generally apparent, and prices have advanced.

GENERAL REPORTS on the catalogue mail trade indicate satisfactory business to date, February 10, with from 10% to 20% advance over 1897 for January.

LOS ANGELES, CAL.—The Redondo growers are about the only ones that have not suffered from the frost. They have some thirty acres planted to carnations. Mr. Feder is cutting from 2,500 to 3,000 per week, and the Redondo Beach Co. about the same. While they are not cutting nearly as many as they would if the weather was more favorable, yet the quality does not seem to be affected. J. J. Dean, of Moneta, in the valley between Redondo and Los Angeles, would have lost a good deal if he had not had his young stock under glass. The Redondo growers are leaders in this section, both as to quality and quantity.



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25 lbs. or over at 11c  
10 lbs. or over at 12c  
Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

**Grafting Wax**

Trowbridge's celebrated Grafting Wax the genuine article, 1 lb. bars at 25c, 1/2 lb. bars at 28c; 1 lb. bars at 2c per pound. Re-bates, 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

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MILFORD, CONN.

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Importers and Exporters of

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NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

**PALM** Seed. FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA	\$1.00	\$7.50	\$20.00
LATANIA BORRHONICA	.50	3.00	7.50
KENTIA BELMOREANA	1.00	7.00	20.00
FORSTERIANA	1.00	7.00	20.00
ASPARAGUS PLUMOSUS NANUS	1.50	12.50	35.00
CANARIENSIS	1.50	12.50	35.00
SPRENGERII	1.50	12.50	35.00

J. L. SCHILLER,  
404 E. 34th St., NEW YORK CITY.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

**Buffalo.**

The window of one of our Main street stores has been conspicuous all winter by the profusion and perfection of the Day-break carnations which have been the key note of the decorations. I refer to that of W. J. Palmer & Son.

I took a run out to their houses at Lancaster a few days since, not only to see where the flowers were produced, but to make my peace with the senior member of the firm.

Since my last visit a lot of the older houses have been removed to make room for those of more modern construction. The new houses are extremely well built and have side light both front and rear; iron frame, big glass and ventilators hinged to purlins. When you walk inside it seems lighter than out of doors.

Several of the houses are devoted to carnations, principally Daybreaks, and a finer lot I never saw—no, never so fine. At the time of my visit they were loaded with great long stemmed blooms of perfect form and color and the evidence was on the plants themselves to show that they had been yielding in a bounteous manner for a long time. I did not learn that they had received any special treatment. It only goes to show what new houses and an old head can do. Several of the older varieties are still grown well. A great many of the newer aspirants for public favor were there also, but I thought it would be a long time before Daybreak, as grown here, would be superseded.

Roses, as usual, are doing well, and violets have been good evidently.

There is nothing new in trade circles that I am aware of—everything quiet and peaceful. The energies of the growers are now being devoted to getting things for Easter and the spring trade, which come rather close together this year. C.

**Pittsburg.**

There is nothing new to report in the business situation this week, neither does it look as if there is to be any marked improvement before the Easter rush, but will keep steadily at what may be designated as very conservative. The demand for funeral work remains fairly good.

The Western Pennsylvania Botanical Society, met on the 3d inst. Twelve new names were added to the membership list. The principal feature was an address delivered by Prof. Adolph Koenig on "Medicinal Plants." He confined himself chiefly to the plants of Allegheny county, Pa., (our own county). Upward of 100 specimens were exhibited and examined in detail. The alkaloid and glucoside substances, which are found in nearly every

plant, were fully delineated, and their curative, poisonous and antiseptic properties explained. The lecture gave a very great deal of satisfaction and instruction.

Miss Anna M. Deens, instructor of botany in our high school, will at the next meeting of the Society, March 3, lecture on "Botany in our Public Schools." As Miss Deens is an enthusiast on her subject, as well as a very fluent speaker, the lecture is looked forward to with great expectations. REGIA.

**The Perfume of the Violet.**

For a long period much of the perfume sold as the product of the violet has been derived from quite a different plant, namely, the Florentine iris, and now we have to record as one of the most recent achievements of scientific chemistry, the production of an artificial perfume practically identical with that of violets.—*Gardeners' Magazine.*

**SOMEBODY MUST WANT THEM**

I have Five cases Spiraea Japonica left, 200 clumps each. Who wants them at ONE-HALF PRICE? I will sell at \$2.50 PER HUNDRED by the case. They must be planted this week to be ready for Easter. Speak Quick. GUARANTEED O. K. Have been kept in cold storage. ❀ ❀ ❀

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Juniper & Walnut Sts, PHILADELPHIA.

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50c pkt., \$8.00. New Giant Fancy Cosmos, six splendid varieties, separate, \$1.00; Giant Cosmos, splendid mixed, 65c oz.; Calliopsis "California Sunbeams," \$1.00. Special rates given on Cosmos in quantity; Apple Geranium, fresh, \$1.00 per 1000 seeds; New Large Flowering Zonale Geranium, \$2.50 oz.; Ipomaea, "Heavenly Blue," \$1.00; \$12.00 lb.; Laurustinus grandiflora, \$1.00; Zinnias, "New Curled and Crested," 50c oz.; \$5.00 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8.00 per 15 lbs.; Scariothia elegans (Palm) 40c per 100 seeds, \$3.00 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

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Net 30 days to approved accounts, less ten per cent for cash with order.

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**TUBEROUS BEGONIAS** \$4.00 per 100. ❀ These are large, extra fine ❀ Bulbs, English strain.

**LILIUM SPECIOSUM RUBRUM, \$3.50 per 100**  
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Fine Nursery Stock such as Rhododendrons, Azaleas, Clematis, H. P. and Tree Roses.

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**CANNAS** NEW AMERICAN Finest in the World Our Novelties for 1898

- DUKE OF MARLBORO, darkest crimson,..... \$30.00
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  - LORRAINE, pink, edged white, fine,..... 30.00
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  - CUBA, finest and largest zift edged,..... 40.00
  - GLORIOSA, very dwarf, March delivery,..... 12.50
  - PHILADELPHIA, glowing crimson,..... 15.00
  - CHAMPION, largest, glowing scarlet,..... \$5.00 each
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- Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

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To Messrs A. Blanc & Co.  
Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. A set of 12 Giant Crimson, etc. Signed CH. MOLIN, Lyon, France, Jan. 3, 1898

**ASPARAGUS SPRENGERI**  
Fine plants in 6-inch pots, ready for sale \$5 per 12.

**AMARYLLIS.....**  
Vetch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

**CALLAS**  
Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each.

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11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, G. H. T. EDGE, \$15 per 100. Send for special list.

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**LILIUM AURATUM.** Per 100 Per 1000  
7-9 inch,..... \$3.75 \$35.00  
9-11 inch,..... 5.00 45.00

**LILIUM RUBRUM (Speciosum)**  
7-9 inch,..... 4.75 40.00  
9-11 inch,..... 6.75 60.00

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7-9 inch,..... 6.50 55.00  
9-11 inch,..... 7.50 65.00

**BEGONIAS TUBEROUS ROOTED ...**  
Single, separate colors,..... 3.50 30.00  
Double, "..... 9.00

**TUBEROSES....**  
True Excelsior Pearl.  
"Hallock strain" First size,..... 1.00 7.50

**GLOXINIAS**..... Per doz., 85c; per 100, \$5.00  
**CALADIUMS....**  
Fancy leaved choice bulbs, per doz., \$1.75; per 100, \$12.00.

**CALADIUM ESCULENTUM**  
Cured and sound bulbs with live center shoots,..... Doz., 100  
5 to 7 inches in circumference, \$ 40 \$2.50  
7 to 9 " " " " 65 4.50  
9 to 12 " " " " 1.00 6.50  
50c per 100 less on 7 9 inch and 9-12 inch sizes if shipped from New York.

**GLADIOLUS XXX Florists Mixture**  
Per 100 ..... \$1.75 Per 1000 ..... \$15.00

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**Pedigree Cannas.**

Our new Cannas, Rosemawr, Golden Pearl, Maiden's Blush, Duke and Duchess of Marlborough (Glorious sunset, Augusta, Baltimore, Philadelphia, &c., are the very best. Write for list of new and standard varieties.

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WEST GROVE, PA.

**STANDARD CANNAS**

- STRONG ROOTS.
- 300 Mme. Crozy,..... \$3.00
- 300 Alphonse Bouvier,..... 3.00
- 300 Florence Vaughan,..... 3.00
- 300 J. D. Cabos,..... 3.00
- 300 Ch Henderson,..... 3.00
- 300 Paul Marquant,..... 3.00
- 150 Stella,..... 3.00

Cash with order. ERNST MAAG, Quincy, Ills.

Baltimore.

NO SERIOUS DAMAGE FROM BAD WEATHER. —TRADE STEADY.—PRICES.—SHOW GETS A SET BACK.—CUT FLOWERS IN COLUMNS.

We did not have such a blizzard last week as Boston reports, but it was enough. Cold weather is all very well to stop the supply of outdoor flowers in the fall, but no doubt, a majority of the craft would like to have a week's notice of such a break as the last, or even dispense with it altogether. So far as can be ascertained no serious damage was done anyone, either by the gale that preceded it, or by the blizzard itself.

Trade is jogging along at a steady gait. The supply seems fairly up to the demand and prices are not bad. The manager at the exchange quotes the following rates: Carnations 1 1/2 cents; La France, Brides, Bridesmaid 6 to 8 cents; Perles 4 to 5 cents; American Beauty, scarce, at \$3 to \$4 per dozen; callas, \$1.20 per dozen; smilax, 20 cents; freesias, \$1 to \$2.50 for choicest long stemmed; Adiantum cuneatum, \$1 per hundred.

Well, the show project has received a decided set back at the hands of the club. The question really is not whether we shall have a show, but shall we have a show of our own, or be a kind of side-show for somebody or something else. There will always be flower shows; there were several in and about the town last year, and there really seems to be a good deal of reason in the assertion that it would cost no more and be no more risky for any individual to join with all hands in giving a grand chrysanthemum show, than it would be stuck off in a corner, like a "lovers' postoffice" or "wheel of fortune" at some charity bazaar. Has our desire to do wonders and leave larger cities and older societies in the shade not run away with us? Or is it an exemplification of the saying that "a scalded child fears cold water."

While cruising about among the stores the other day, a simple but very satisfactory plan of holding cut flowers in columns was seen at Mr. Feast's. A bamboo stem about two inches in diameter had notches cut half way through the diameter just below each node or leaf joint, by filling the hollow stem of each joint with water and putting the stems of the orchids, ferns, etc., in the holes or notches, a slender column of most graceful appearance was formed, while every bit of the greenery and bloom had a plentiful supply of water at the stem, to keep it from wilting. The usefulness of such an arrangement for delicate subjects, such as Adiantum Farleyense can hardly be overestimated. MACK.

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HARDY Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA. PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING, The Reading Nursery, - READING, MASS. ESTABLISHED 1844

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**PALMS and FERNS**  
 The Largest Stock of PLANTS IN THE WEST  
  
 GEO MITCHELL 1708 N. HALSTED ST. CHICAGO

**Adiantum Farleyense**  
 BEAUTIFUL PLANTS, In 5-inch pots, at \$4.00 per dozen.  
 EDWIN LONSDALE, Wyndmoor, Chestnut Hill, PHILADELPHIA, Pa.  
 Money Order Office, Station H. Ph la

**BOSTON FERN**  
 Nephrolepis Exaltata Bostoniensis.  
 Strong plants 6-inch pots, \$1.00 each; \$12.00 per doz.; also three varieties of PTERIS, bushy plants, 5-inch pots, 20c each; \$2.40 per doz.  
 JOHN WELSH YOUNG, ....CERMANTOWN, PA.

**ROSE HILL NURSERIES, SPECIAL OFFER**  
 Cocos Weddeliana \$6.75 per 1000, 5000 lots, \$36.00.  
 SIEBRECHT & SON, New Rochelle, N. Y. New York Office, 409 Fifth Avenue.

**BEGONIAS**  
 100, 1000, Single, separate colors, \$3.00, \$25.00  
 Double, 7.50, 65.00  
 Gloxinas, mixed, 1.00, 35.00  
 J. L. SCHILLER, 404 E. 34th St., New York. Sole Agent for Louis van Driessche, Ghent.

**FEBRUARY OFFER.**  
 Per 100  
 Alternanthera, Yellow, \$1.50; Red ... \$2.00  
 English Ivy ..... 3.00  
 Begonias, 5 var ..... 3.00  
 Oxalis Floribunda ..... 2.50  
 Ceranium, 16 Var., 2-in. pots ..... 2.50  
 Pansy Plants ..... 1.00  
 CASH WITH ORDER  
 JOS. H. CUNNINGHAM, Delaware, O.

**DWARF PAPAYAS**  
 MOST excellent looking and desirable plant known. Equal to a plum in beauty and manner of growth; grows with the ease of the Ricinus and endures drought with impunity. Plants from 4-in. pots at our time 1st attained a height of 10 feet and though not watered once, remained fresh and vigorous throughout the extreme drought. As produce a delicious fruit as easily grown as lettuce. Our plants are propagated from a tree which produces 1 1/2 winter 100 lbs. of fruit, the fruit weighing 12 lbs. Send for half-tone photograph, photo showing bed of these plants. Price per hundred at \$2.25 per doz. Plants ready May 1st. We are headquarters for all plants and for fruit.

**Martin Benson,**  
 DONGOLA, - - ILLINOIS.

Palms,

Pandanus Veitchii,  
 Ferns and Araucarias,  
 IN ANY QUANTITY.

JOHN SCOTT,  
 Keap Street Greenhouses,  
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**Roses, Palms**  
 and Novelties in Decorative Plants.  
 Market and 49th Street, PHILADELPHIA, PA.

**SPECIALTIES**  
 IN BEST VARIETIES.  
 ROSES, from 3-inch pots.  
 CARNATIONS, for fall delivery.  
 CHRYSANTHEMUMS.  
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 Prices low. Send for list.  
 WOOD BROTHERS, FISHKILL, N. Y.

Healthy Growing Plants  
**Cocos Weddeliana...**  
 Samples for Stamps  
 2 1/2-inch pots, \$6.00 per 100.

**VICTOR GARNATION**  
 From sand \$4.00 per 100;  
 \$35.00 per 1000. The best pink on the market!  
**B. REDFIELD**  
 GLENSIDE, PA.

**Bulbous Stock** On own roots for Jardinieres and Pots, which are great sellers.  
 1st size Dutch Hyacinths in 18 named varieties ..... \$1.00 per doz.  
**TULIPS** Single and Double, Yellow, White, Pink and colored. Also  
 Lily of Valley ..... 50c doz.  
 CROCUS in 1 best colors ..... 25c doz.  
 Fine Bulb Pans ..... 5-in. 25c doz.; 6-in. 35c doz.  
 Stock packed in sphagnum and will stand 5 days' journey. Cash with order....

**H. SCHILLER**  
 897 W. Madison St., - CHICAGO, ILL.

**GALAX LEAVES AND**  
**LEUGOTHE SPRAYS...** Green and Bronze  
 Of all wholesale florists or write the introducer for free samples and information.....  
**HARLAN P. KELSEY,**  
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BRILLIANT GREEN AND BRONZE  
**GALAX LEAVES,**  
 For Decorating and all Florists' Designs.  
**CHAS. H. RICKSECKER,** Linville, Mitchell Co., N. C.



**Roses Grafted on Manetti Stock Versus Own Root Stock.**

Replying to your correspondent A. T., J. A. V. and many others who are constantly asking the same questions, who seem to think this is comparatively a new subject, whereas it was simply a very old one revived by the articles which appeared in the paper about a year ago; as long as I can remember anything about rose growing, this same subject had been thoroughly tested by many growers, but as I can only give the actual experience of one (myself), I will simply give the results of my own trials.

Some twenty-four years ago as I was growing roses where the Aramigus or rose bug as it is commonly known, was causing fearful havoc with our stock, it occurred to me that possibly the Manetti roots and stem, being somewhat of a harder nature than the ordinary tea rose roots, might resist their teeth a little better. To carry this idea into practice I ordered quite a lot specially prepared for the following season's planting which we received in due time in splendid condition, but alas! their roots were in no way proof against the pest. They were planted, or part of them, in a house 24x300 about half filling the same. The other half was planted with own root stock which we had propagated ourselves. The result was, at the end of the season, that the own roots stock gave us about ten per cent. more flowers than the grafted stock, though the latter were much the strongest plants when put in the house. About this time I made up my mind to wage war on the rose bugs, so lifted the grafted plants, washed every particle of soil from their roots, dipped the tops in strong Paris green solution,

planted them in the open ground, then cleaned every particle of soil, including the surface of the ground under the benches for two inches deep, made a huge bonfire and burned everything. This we did with all the old stock from all the houses except the grafted plants above mentioned.

After emptying the houses, we burned enough sulphur in each house to kill every living thing in them, including a cat which was left in one by oversight. This with some other radical measures we took, virtually got rid of Mr. Aramigus. In the meantime we had prepared an entirely new stock to plant the houses in a separate lot of houses some distance away from the infested ones. This stock included about 1,000 grafted plants of such varieties of tea roses as were then grown, and about the first of July the large house was again planted somewhat in the order as given above. A very careful record of the cuts of buds from both classes of plants were daily kept this season, the result was 12% per cent in favor of the own root stock. I might mention that the first year's trial given above was in benches with six inches of soil, and I believe these were the first benches planted for winter forcing in this country.

So much for this test; true we were not bothered in those days with eel worm, and our own varieties were not those of the present time, being such old sorts as Niphetos, Bon Silene, Safrano, Bougier, Souvenir d'un Ami, etc., but about this time I imported a lot of Perle des Jardins and Catherine Mermet for trial as they were new varieties untried in our method of forcing. Some of my then neighbors predicted that they would not succeed. As to the result the rose growers in the

whole country can judge for themselves. Of course when these varieties did bloom, and their marvellous beauty was discovered, the main object in view was to propagate as many as possible. Having a lot of Manetti stock on hand, also a lot of Cherokee, Banksia and other strong growing varieties at my disposal, I utilized every shoot and eye possible without destroying the vitality of the plants to bud and graft. The next season's trial of these was somewhat disappointing so far as the Manetti was concerned. Those on the Banksia, Cherokee, etc., did wonderfully well. The result was that for the following season I propagated largely by cuttings, and that year the result was entirely satisfactory. And from that time to this, I have tried grafted stock on Manetti at various times, and in various ways with the idea of thoroughly satisfying myself if there was any advantage in them, and am compelled to admit that up to the present time, including this season, I can find no advantage in them for shallow bench culture such as we follow here. This season we have several patches of Bride, Bridesmaid and American Beauty planted alongside of our regular own root stock and we have not found them yield as many buds or give us any better quality than the own root stock, and they are now growing here for any one to examine them who wishes to.

Now with regard to the roots of Manetti resisting eel worm I sold a customer who has been badly troubled with this pest for several years a few plants last spring, I saw him a few days ago and he tells me that the grafted plants are as badly affected as the others, but this may be an isolated case.

JOHN N. MAY



SINGLE TUBEROUS BEGONIAS....

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## SEASONABLE Bulbs and Tubers

**TUBEROUS-ROOTED BEGONIAS AND GLOXINIAS.** Now is the time to plant for early flowering. Our strain this season is even superior to that supplied by us in the past, having secured control of the stock of two of the most successful European growers, same having been personally inspected by us while in flower.

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Separate colors—Crimson, Searlet, White, Rose, Yellow and Orange. . . . . 50c per dozen, \$3.00 per 100, \$25.00 per 1000  
 Choicest Single Varieties in Mixture. . . . . 40c per dozen, \$2.50 per 100, \$20.00 per 1000

### DOUBLE TUBEROUS-ROOTED BEGONIAS

Separate colors—Searlet, Rose, White and Yellow. . . . . \$1.25 per dozen, \$10.00 per 100, \$90.00 per 1000  
 Choicest Double Mixed. . . . . \$1.00 per dozen, \$8.00 per 100, \$70.00 per 1000

### GLOXINIAS

A Superb Strain in Choicest Mixture. . . . . 75c per dozen, \$5.00 per 100, \$40.00 per 1000

### FANCY LEAVED CALADIUMS.

Choice Named Varieties, in 25 sorts. . . . . \$2.00 per dozen, \$15.00 per 100  
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A fine assortment of 25 Double Cactus, 12 Double Show and Fancy, 20 Pomponne, strong field-grown roots. \$1.00 per doz., \$8.00 per 100.

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4 Fine Sorts. . . . . 30c per doz.; \$2.00 per 100.

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One of the most desirable of our summer and fall flowering bulbs, comparatively but little known, but certain to become popular. Six choice named sorts, 35c per doz.; \$2.50 per 100.

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True Dwarf Double Pearl, selected, 4 to 6-inch bulbs. . . . . 85c per 100; \$7.50 per 1000.

### JAPANESE LILIES.

Send for List of Sorts and Prices.

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ROOTED CUTTINGS.

All of the following are grown from clean vigorous stock and in A-condition. For full description see our Wholesale-Price List.

**Novelties and Varieties of Recent Introduction**

Novelties and Varieties of Recent Introduction							
doz.	100	1000	doz.	100	1000		
Bon Ton	\$2.00	\$10.00	\$75.00	John Young	\$2.00	\$10.00	\$75.00
Empress	2.00	10.00	75.00	Mrs. Geo. M. Bradt	1.00	6.00	50.00
Flora Hill	.75	5.00	40.00	Mrs. James Dean	2.00	10.00	75.00
Gold Nugget	2.00	10.00	75.00	New York	2.00	10.00	75.00
Harrison's White	.75	5.00	40.00	White Cloud	2.00	10.00	75.00
Jack Frost	2.00	10.00	80.00				

**STANDARD VARIETIES**

STANDARD VARIETIES							
doz.	100	1000	doz.	100	1000		
Anna Webb	.35	\$2.00	\$15.00	Lawrence Thompson	.35	\$2.00	\$15.00
Alaska	.35	2.00	15.00	Orange Blossom	.50	3.00	25.00
Armazindy	.50	3.00	25.00	Portia	.30	1.50	12.50
Buttercup	.75	4.00	35.00	Rose Queen	.30	2.00	15.00
Daybreak	.35	2.00	15.00	Thos. Cartledge	.35	2.00	15.00
Eldorado	.50	3.00	25.00	Tidal Wave	.35	2.00	15.00
Helen Keller	.50	3.00	25.00	Wm. Scott	.30	1.50	12.50
Lizzie McGowan	.30	1.50	12.50	W. D. Sloane	.35	2.00	15.00

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## Do Not Buy Carnation Cuttings

At a less price than it costs to grow them and expect good stock. Our prices are as low as good stock can be sold for.

White Cloud	
Gold Nugget	
Empress	\$ 2.00 per doz.
Mrs. Frances Joost	10.00 per 100.
Wellesly	75.00 per 1000.
Conch Snell	
Psyche	
Painted Lady	
Daybreak	\$2.00 per 100
Jubilee	3.50 per 100
Eldorado	
Meteor	\$ 2.00 per 100
Bridesmaid	15.00 per 1000

FLORA HILL	
C. A. Dana	\$ 5.00 per 100
Victor	40.00 per 1000
Morello	
Mayor Pingree	
Nivea	\$ 3.00 per 100
Edith Foster	25.00 per 1000
Jahns	

Alaska	\$ 1.50 per 100
Scott	12.00 per 1000
McGowan	
Triumph	
Mrs. McBurney	\$ 2.50 per 100
H. Keller	20.00 per 1000
Armazindy	

**H. F. LITTLEFIELD, Worcester, Mass.**

## EVELINA

Is the grandest mid-winter carnation extant. This is the unanimous opinion of all who have seen it growing and predict for it a grand future. Surpasses Wm. Scott.

Send your name and address and penny postage stamp and desire price list of Evelina.

**R. WITTERSTAETTER, Sedamsville, O.**

### 50,000 Flat-Grown CARNATIONS

STRONG STOCK.	per 100	per 1000
Daybreak	2.00	\$15.00
Scott	2.00	15.00
Howard Johnson	2.00	15.00
Tidal Wave	1.40	12.00
Portia	1.40	12.00
Gold Nugget	10.00	
Jubilee	10.00	
Wm. Scott	10.00	
Wm. Scott	1.40	12.00
L. McGowan	1.40	12.00
Eldorado Meteor	1.00	
Flora Hill	1.00	
Triumph Armazindy	1.00	
Photo-copied and color plate new both varieties	10.00	

Cash with order HENRY A. NIEMEYER, Erie, Pa.

## NATHAN SMITH & SON

Wholesale Florists

Specialties ADRIAN, MICH.

CHRYSANTHEMUMS  
CARNATIONS  
AND VIOLETS

... CORRESPONDENCE SOLICITED ...

## Kathleen Pantlind

DAYBREAK & SCOTT.

Price \$1.50 per 100; \$10.00 per 1000; \$75.00 per 10000.

Premium - 5 Red Wave with every 100 Kathleen Pantlind.

**HOPP & LEMKE,**

Paul P. O., E. GRAND RAPIDS, MICH.

## FIREFLY

**A RUST PROOF CARNATION FOR BUSINESS.**

Bright scarlet and POSITIVELY RUST PROOF. As productive as Scott. Rooted Cuttings Feb. 12th \$10 per 100 \$75 per 1000. Send for descriptive list of Firefly and fifteen other novelties of '98. Fifteen varieties of '99 and older standard sorts.

**GEO. HANCOCK & SON, - GRAND HAVEN, MICH.**

When writing mention the American Florist.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

**Indianapolis.**

During the past week business has been very good. Many receptions and other social events absorbed all the home grown cut flowers, besides many shipped. Violets even, of which an over supply is reported from most other places, find ready sale in this city.

Several florists are planning changes in regard to what they are going to grow this year.

H. W. Rieman, who showed such a fine collection of roses at our last chrysanthemum show, will plant Brides, Maids, Meteors and Perles only; Kaiserin, Test-out, Carnot and La France will be dropped, because they do not bloom enough in winter to pay.

The Columbian place conservatory, where roses have mainly been grown, intend raising carnations extensively.

Sonnenschmidt & Junge will discard carnations and grow only roses and violets.

The Meridian street conservatory, where general stock for market has been grown, will change to a cut flower growing establishment.

The Indianapolis Flower and Plant Company, growers of cut flowers and general stock, have recently developed into a wholesale plant business, which so far, is the only one in town.

This city claims the distinction of a citizen managing four well sized greenhouses with the aid of but one thermometer, which is hanging on the outside of his greenhouse shed. J.

**Death of Samuel Edwards.**

The funeral of Samuel Edwards, of Mendota, Ill., was held on the 2nd, in that city and was attended by a large number of people. He was 80 years of age and his attainments and knowledge as a scientific horticulturist have made him well known throughout the Northwest. With J. T. Little, about the year 1851, he was one of the first to hold the office of secretary in the Northwestern Fruit Growers' Association.

**50,000 ROOTED CUTTINGS**

**CARNATIONS**

Rose Queen, \$1.25 per 100, or \$10.00 per 1000; Jubilee, \$2.50 per 100, or \$20.00 per 1000; H. Keller, W. Scott, Thos. Cartledge, \$1.00 per 100, or \$7.50 per 1000; Lizzie McGowan, 75c per 100, or \$6.50 per 1000; Harrison's White, Eldorado, \$2.00 per 100, or \$15.00 per 1000.

**CHRYSANTHEMUMS**

Two-inch pots  
Major Bonaffon, \$3.00 per 100 or \$20.00 per 1000; The Queen, Pink Ivory, \$3.00 per 100, \$20.00 per 1000; President Saultb. Eda Fraese, \$2.00 per 100, or \$15.00 per 1000.

**VIOLETS**

Marie Louise \$6.00 per 1000; Double Alyssum, 2-inch pots, 75c per 100. Cash with order or satisfactory reference.

**PAXTON GREENHOUSES,**

C. E. Taube, Prop. Harrisburg, Pa.

**Carnations  
Chrysanthemums**

**NEW AND STANDARD VARIETIES**

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

**GARNATIONS** Strong Well-Rooted Cuttings

TIDAL WAVE..... 75c per 100  
LIZZIE MCGOWAN .... 75c per 100

I make these low prices to sell out my surplus stock.

**OTTO HANSEN, CALEWOOD, ILL.**

**NEW GARNATION  
"Mrs. S. A. Northway"**

*A soft shell pink, developing to nearly pure white.*

**OUR MASTERPIECE.**

We shall commence shipping soon.

Orders booked **now** and filled in **rotation**.....

PRICE: PER 100, \$10.00.  
PER 1000, \$75.00. ☼

**Newer Geraniums.**

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2 1/4-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.....

**GENERAL LIST OF GERANIUMS.**

A superb stock in quality and variety of all the finest sorts, from 2 1/4-in. pots, named. \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.....

**Fuchsias.**

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.....

OUR PRICE LIST now ready, contains prices on many other plants.

SEND FOR IT.

**W. P. SIMMONS & CO., Geneva, Ohio.**

**NEW PINK CARNATION**

**MRS. FRANCES JOOST**

SEEDLING from McGowan x Wm. Scott; tested for four years. It is of an exceedingly pleasing color and proved itself an early and most prolific bloomer. It makes in a short time a fine bushy plant, and has the form and habit of what carnation men say make an ideal plant. Positively free from rust. The stem is strong and heavy enough to carry the large flower erect without tying of any sort. Calyx perfect; never bursts. It is a good keeper and a good shipper. You will make no mistake by trying a few. Rooted cuttings ready now. All orders filled in rotation. As the sale of the stock of this Carnations will be limited, it is advisable to order early if you want any. Satisfaction guaranteed.

Price, \$2 per doz.;  
\$10 per 100;  
\$75 per 1000.

CASH WITH ORDER.

**C. BESOLD, MINEOLA, Long Island, N. Y.**

**THREE MONEY-MAKING CARNATIONS.**

TESTED AND PROVED WORTHY.

**Roper's May Whitely**

Daybreak Color, Fragrant, Free....

...and **Mayor Quincy**

Rooted Cuttings  
...Ready Now

The Improved Nicholson.  
Per 100, \$10; per 500, \$35; per 1000, \$50.....

**Tailby's Wellesley**

Brilliant Scarlet, Grand Constitution...  
Per 100, \$10; per 1000, \$75

**GEO. A. SUTHERLAND,**

Selling Agent,  
67 Bromfield St., BOSTON, MASS.

When writing mention American Florist.

Plant Introductions of 1898.

The undersigned respectfully solicits from all those introducing or having a knowledge of the introduction of new plants to the American trade for the year 1898, such descriptions and information as will be of assistance in making up the complete list for the year, which will be published as a part of the record of the Society of American Florists and Ornamental Horticulturists, as was done last year, but in a more complete form.

Address, WM. J. STEWART, Sec'y,  
67 Bromfield St., Boston, Mass.

LONDON, ONT.—It is claimed that false returns were made in the election of representatives of the Horticultural Society to the Western Fair Board. The matter has been taken into court and interesting developments are expected.

New CARNATIONS.

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Wittestaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

MRS. C. H. PEIRCE—Yellow.  
35c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
50c each, \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List.  
Ready January, 1898.

F. DORNER & SONS CO.  
LAFAYETTE, IND.

Experiences  
... WITH ...  
**CARNATIONS**  
The next number ready March 1, will be cultural as well as descriptive and sent free to all applicants.  
I Guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.  
**ALBERT M. HERR,**  
... LANCASTER, PA.

Rooted Carnation Cuttings  
Ready Feb. 1st.  
A. ... .. \$1.40  
B. ... .. \$1.40  
C. ... .. \$1.40  
D. ... .. \$1.40  
E. ... .. \$1.40  
F. ... .. \$1.40  
G. ... .. \$1.40  
H. ... .. \$1.40  
I. ... .. \$1.40  
J. ... .. \$1.40  
K. ... .. \$1.40  
L. ... .. \$1.40  
M. ... .. \$1.40  
N. ... .. \$1.40  
O. ... .. \$1.40  
P. ... .. \$1.40  
Q. ... .. \$1.40  
R. ... .. \$1.40  
S. ... .. \$1.40  
T. ... .. \$1.40  
U. ... .. \$1.40  
V. ... .. \$1.40  
W. ... .. \$1.40  
X. ... .. \$1.40  
Y. ... .. \$1.40  
Z. ... .. \$1.40

NEW CARNATION...  
**Empress**  
Send for price list of above,  
New and Standard Sorts...  
WM. SWAYNE, Box 226, Kennett Square, Pa.

THE NEW CARNATION **Cerise Queen**  
The best dark pink we have seen or grown.  
Orders booked now. \$10 per hundred.  
**Mayor Pingree** FINE STOCK  
\$5.00 per 100. \$40.00 per 1000.  
**JOHN BREITMEYER & SONS,**  
DETROIT, MICH.

WANTED Carnation growers to look into the merits of  
**NEW CARNATION "ARGYLE"**  
and be convinced that it is the coming commercial variety of its color.  
READY MARCH 1st. Price, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000.  
Send for circular for full description and a select list of money makers in Chrysanthemums.  
**STOLLERY BROS.,** Argyle Park, CHICAGO.

Anybody Can Grow **Genesee** NEW COMMERCIAL WHITE  
Carnation  
Originators: HARRON & BURR, Darien, N. Y.  
For Prices, Circulars, etc., address  
**DAN'L B. LONG,** Sales Agent, BUFFALO, N. Y.

**SOUTH PARK FLORAL CO.,** New Castle, Ind.  
ROOTED CUTTINGS.  
We grow prize winners. Try our fine strong stock and grow fine flowers.  
We are wholesalers of Fine Cut Flowers, Roses, Carnations, Violets.  
Alaska ..... \$ 2.00 per 100.  
McCowan ..... \$15.00 per 1000.  
Albertini .....  
Scott .....  
Keller .....  
Triumph ..... \$ 3.00 per 100.  
Daybreak .....  
Jubilee .....  
Armazindy ..... \$ 4.00 per 100.  
McBurney .....  
Flora Hill .....  
Mayor Pingree ..... \$ 5.00 per 100.  
Notice the report of the meeting of the Indiana florists Jan. 20, and see who got the awards

**\$100 REWARD** will be paid for any RUST found in our Carnations. All Pure and Healthy. Throw out that old RUSTY Stock, begin anew with clean stock.  
WE HAVE NICE ROOTED CUTTINGS, A NO. 1.  
Meteor ..... \$1.50 per 100  
Stuart ..... \$12.50 per 1000  
Goldbach .....  
Albertini ..... \$12.50 per 1000  
Bridgemad .....  
Uncle John .....  
Storm King ..... \$1.50 per 100  
Daybreak ..... \$12.50 per 1000  
William Scott .....  
Nice specimen plants Geranium La Favorite, 6-in. 20c ea  
Callas, 5-inch, just right for Easter, \$15.00 per 100.  
Primulas 3 inch, \$1.00 per 100.  
**McDONALD & STEELE,** 109 S. Washington St., Crawfordsville, Ind.

**CARNATIONS**  
STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later  
Including Morello, Flora Hill, Daybreak, Wm. Scott, Lazzo, McCowan, Ivory, Silver Spray, Emily Pearson, Goldbach, Liberator, and others. Send me a list of what you want and get prices before you buy. We also have a line of Carnation and Violet blooms for sale. Write for prices.  
Address  
**CHAS. CHADWICK,**  
Lock Box 11, GRAND RAPIDS, MICH.

**CARNATIONS**  
FROM SAND OR SOIL  
DAYBREAK ..... \$1.00 per 100, \$10.00 per 1000  
TIDAL WAVE ..... \$1.00 per 100, \$10.00 per 1000  
M. GOWAN ..... \$1.00 per 100, \$10.00 per 1000  
W.M. SCOTT ..... \$1.00 per 100, \$10.00 per 1000  
CASH WITH ORDER.  
**LAKE GENEVA FLORAL CO.,** Lake Geneva, Wis.  
Mention American Florist.

**BAKER'S NEW CARNATIONS.**  
Grown and tested five years.  
**ONEIDA**—Pure pink, healthy; no rust; continuous producer; largest size bloom.  
**RED JACKET**—Bright red, fine stem and calyx; continuous cropper. \$10.00 per 100.  
Orders booked now to be filled in rotation as fast as rooted.  
**C. F. BAKER, Utica, N. Y.**  
I HAVE a large stock of rooted CARNATION CUTTINGS in healthy condition of the following varieties, now ready. Per 100. Per 1000.  
Daybreak ..... \$2.00 ..... \$20.00  
Portia ..... \$2.00 ..... \$20.00  
L. McCowan ..... \$2.00 ..... \$20.00  
Mrs. Fisher ..... \$2.00 ..... \$20.00  
Buttercup ..... \$2.50 ..... \$25.00  
Albertini ..... \$3.00 ..... \$30.00  
A. J. Harrison ..... \$3.00 ..... \$30.00  
Nelle Lewis ..... \$3.00 ..... \$30.00  
**J. O. ZIMMERMANN, Pueblo, Col.**

**VICTOR CARNATIONS**  
The best pink carnation in commerce, and the most prolific bloomer, producing immense flowers on long stiff stems.  
The plants are of robust growth and clean. We can furnish strong cuttings from soil or sand at \$1.00 per 100, or \$10.00 per 1000. Come and see it growing. Cash with order.  
**SMITH & SON,** Wido Park Ave. & Crawford Road, CLEVELAND, OHIO.

Rochester, N. Y.

The demand for cut flowers during the week has been highly satisfactory; in some lines the supply has increased. Violets are quite plenty, so are tulips and other bulbous stuff, but prices have not declined. Carnations are furnished in quantity, still there are none too many; they bring \$1.50 to \$2 for ordinary, and \$3 to \$4 for choice quality. Tulips still sell at \$3 and \$4. Narcissus, \$4. Miniature hyacinths from \$5 to \$6; some indifferent stock sold for \$4. Good freesia can be bought for \$2. Valley, \$4. Tea roses continue scarce as ever, and prices are stiff, good quality brings from \$8 to \$12. Smilax is \$12 to \$15; not much of it in the market, and the same can be said of asparagus.

Business outlook for the near future is very encouraging; weddings and other events call for extensive decorations from now on until the end of the month, when Lent will check gay entertainments to some extent.

Lately the weather has not been very favorable for the plant trade; in severe cold days we can notice always a falling off in this line, but as we now again enjoy a mild spell, sales are improving, especially is this true in all kinds of flowering plants.

Last week a serious accident happened to Mrs. F. Schlegel while out sleigh riding. She is now very much improved, and her many friends are wishing for a speedy and complete recovery. J. B. K.

**Government Greenhouses Closed to Visitors.**

An order was issued January 29, forbidding the admission of visitors to the greenhouses under the control of the Superintendent of Public Buildings and Grounds at Washington, D. C. This action is believed to be due in some part to the crusade against the distribution of flowers carried on by the local florists, and is apparently much regretted by the general public. Some leading florists claim that if the greenhouses were not almost completely devoted to the production of flowers for free distribution, the parks could be kept in better condition at all times of the year.

	Rooted cuttings, Per 100	2-Inch Per 100
Roses, Bride and Bridesmaid.....	\$ .60	\$ 3.00
Verbenas, 12 varieties.....		3.00
Yucca, (Major).....		2.00
Mme. Sallerol Geraniums.....	.75	2.00
Ageratum, blue and white.....	.90	2.00
Coleus in variety.....	1.00	2.50
Indueckia, (Golden Glow).....		4.00
Abutilon, Souv. de Bonn and Eclipse.....		3.50
Moonvines (white and blue).....		4.00
Salvia Splendens.....	1.50	3.00
Solanum (white).....		4.00
Umbrella Plants.....		4.00
Calla Lilies.....		3.00
Paris Daisies, white.....	1.50	3.00
Heliotrope, blue.....	1.50	3.00
Begonia Vernon, red.....		3.00

Stock ready now. Terms cash or approved references.

**INDIANAPOLIS FLOWER AND PLANT CO.,**  
Central Ave. and 34th St., Indianapolis, Ind.

**5,000 SMILAX...**

From flats, by mail, 50c per 100, \$4.00 per 1000  
From 2-inch pots, \$1.50 per 100, \$15.00 per 1000  
From 3-inch pots, ..... \$5.00 per 100  
Send for samples. Cash with the order.

**FRED BOERNER,** Cape May City, N. J.

It is good business policy to mention the

**...AMERICAN FLORIST**

when you write to an advertiser.

**100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.**

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.

**NO RUST OR MILDEW.**

**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

**J. L. DILLON, Bloomsburg, Pa.**

**VERBENAS.**

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass and as clean as a whistle. Strong plants, out of 2-inch pots, full of cuttings, \$1.50 per hundred; rooted cuttings, 60 cents per hundred, \$5.00 per thousand.

STRICTLY CASH WITH ORDER.

**SOUTH SIDE FLORAL CO., Springfield, Ill.**

**The New Imperial Violet.**

Perfectly healthy, very dark green foliage, makes few runners, flowers royal purple, on long stiff stems, exquisitely fragrant, very prolific and the most enormous double flowers ever seen on a Violet. A splendid keeper and shipper; not over two doz sent to any one order. Price \$2.50 per doz. Plants by mail. Address the originator.

**W. L. MINOR, Brockton, Mass.**

Come and see the most superb lot of violets ever grown

**GERANIUMS**

**BEGONIAS**

**and FUCHSIAS**

**SELECT NEW** and good old standard sorts, the best to be found, up-to-date. 40 Varieties Geraniums, 25 Flowering Begonias, and a good assortment of Market Fuchsias. Let us know what you want and we will quote you prices low enough.

**J. NICOL**

Oak Street, JERSEY CITY, N. J.

**GREEN AS GRASS.**

**MAMMOTH VERBENAS**

Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6.00. Cash with order.

**FRANK S. PAYNE, Barnard Crossing, N. Y.**

**CLEMATIS**

Jackmanni, Druryii oz. 100 and others.....\$3.00 \$20.00

**H. P. Roses** Strong, 2 and 3 years own roots.....\$1.50 \$10.00

**RED JACKET GOOSEBERRY**, large native red..... .75 \$4.00

**DOWNING**, best for general crop, special prices.

**PAEONIES**, fine ass't of colors and kinds \$1.25 \$8.00

**SMILAX**, extra strong plants..... \$2.50

**F. A. BALLER, Bloomington, Ill.**

**PELARGONIUMS**

12 LEADING KINDS, \$4.00 per 100.

**VERBENAS** 25 of the best named varieties. Rooted Cuttings, 60c per 100. Express prepaid. Cash with order.

**S. D. BRANT**

THE CLAY CENTER FLORIST, CLAY CENTER, KAN.

**STOCK THAT WILL PLEASE YOU.**

**Carnations** In 2-in. pots. Mrs. S. A. Northway, \$10 a 100; Flora Hill, Mapledale, \$5 a 100; Daybreak \$5 a 1000; Lizzie McGowan, \$12 a 1000; Rose Queen, fine for summer cutting, \$10 a 1000.

**Geraniums** In 2 1/2-in. pots. S. A. Nutt, La Favorite, Heteranthus, \$25 per 1000; Mme. Brunt, M. Alphonse Richard, Fleur Pottevine, \$4 per 100; Mrs. Perkins, Surprise, Duchesse de Malle \$4 per 100; Rose, \$2.50 per 100; Mme. Sallerol (2-in.), \$20 per 1000.

**GENISTA RACEMOSA**, 1 lb., fine stock, \$10 per 100. STOCK A NO. 1. TERMS CASH.

**CARL HAGENBURGER, West Mentor, Ohio.**

**BOUGAINVILLEAS.**

Beautiful for "cutting" or pot sale. Free and durable, and blooming for four to six months of the year. Very easily banded and not subject to any insect pests.

Send for "Comments and Facts."

**THEO. F. BECKERT, Glenfield, Pa.**  
9 miles below Pittsburg, Pa.

**The Cottage Gardens**  
QUEENS, L.I.  
Specialties in CARNATIONS, CHRYSANTHEMUMS, CANNAS, GERANIUMS, DAHLIAS.  
SEND FOR OUR PRICE LIST

**KLONDIKE**

Cold Fields at your door.—GERANIUMS.

Grown in soil in flats, ready to shift into 3-inch pots, \$15.00 per 1000. S. A. Nutt, Beaute Pottevine, Mrs. E. G. Hill, Van Dael and Robt. Brett; the same in 2 1/2-inch pots, \$30.00 per 1000.

Standard sorts, such as double Grant, Bruant, La Fayette, La Favorite, Le Pilot, Gloire de France, Hlof Beech, Wonder, Mrs. J. M. Gaar, Jules Ferry, Centaureau and others, \$12.00 per 1000. In 2 1/2-inch pots, \$18.00 per 1000. Mountain of Snow, In 2 1/2-inch pots, \$2.50 per 1000. Mme. Sallerol, from flats, \$1.25 per 100 \$10.00 per 1000. Ageratum, blue and white, from flats, 75c per 100; \$6.00 per 1000. Fuchsia, standard sorts, from flats, \$1.50 per 100, \$12.00 per 1000. Feverfew Little Gem, from flats \$1.50 per 100, \$9.00 per 1000. Selection of sorts to remain with us. Cash to accompany all orders.

Double Petunias, extra fine strain for flats \$1.50 per 100; \$12.00 per 1000. Variegated Vinca, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Antheus, Cineraria, Double Golden Marguerite, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Salvia Splendens, rooted cuttings \$1.00 per 100.

**COLEUS**, assorted 2-inch pots \$15.00 per 1000; rooted cuttings \$1.50 per 1000; C. Verschaffelti and Golden Queen, 2-inch pots \$18.00 per 1000; rooted cuttings \$6.00.

**J. E. FELTHOUSEN, Schenectady, N. Y.**

**AZALEAS FOR EASTER BLOOMING.**

We have an immense stock of all the best varieties; fine shapely plants well budded.

10 to 12-in. Crowns, \$4.00 per doz. \$30.00 per 100  
13 to 15-in. " " 7.00 " 50.00 "

Double Golden Marguerite Cuttings by mail, \$1.50 per 100

**WHITTON & SONS, Wholesale Florists,** City & Green Sts., Utica, N. Y.

**WHY NOT.....**  
Advertise and sell some rooted cuttings or other surplus stock.  
**THIS SIZE "AD." ONLY \$1.00.**  
AMERICAN FLORIST CO., CHICAGO.

**CALIFORNIA PRIVET**

1 year old, 12 to 20-inch tops, stocky, \$8.00 per 1000  
1 year old, 12 to 15-inch tops, ..... 6.00 per 1000  
1 year old, 8 to 12-inch tops, ..... 4.00 per 1000  
Cuttings, 6 inches long, 100-200 in bunch \$1.25 per 1000, 25,000 lots, \$1.00 per 1000.

**River View Nurseries,**  
O'HAGAN & KING, Little Silver, N. J.

**TELEGRAPH CODE**

OF THE  
**AM. SEED TRADE ASSOCIATION**

**\$2.00,**

In either stiff or flexible cover.

ADDRESS ORDERS TO

**AMERICAN FLORIST CO., CHICAGO.**

Care of Azaleas.

ED. AM. FLORIST: Please give some information on the care of azaleas. I have them for the first time, and do not know what to do with them for the summer. They were soaking wet on arrival, but many buds were blighted and they dropped their leaves badly and do some yet.

Replying to the above, as to the care of azaleas in summer, it is best to plunge them out of doors in a bed of ashes or any material that will furnish the requisite drainage, and top dress them with thoroughly decomposed stable manure. This is Robert Craig's method of growing this popular and useful plant, and the hundreds of exceedingly fine plants he had out in the full sun at Market and 49th streets last summer, testifies to the wisdom of this system of culture, and he emphasizes the fact that the manure must be well rotted. Care must be exercised, however, that the plants have completed their growth, and have been thoroughly hardened by ventilating the greenhouses in which they are growing, both night and day, before being exposed to the full sun and the outdoor treatment, and they must never be allowed at any stage of their existence to suffer for the want of water, and this advice especially applies when they are first taken out of doors. It will be found necessary, if at that time the weather be dry and bright, to give them a thorough drenching three or four times a day until they have become accustomed to the new order of things. This is deemed necessary to allow for the greater evaporation which takes place when plants are first taken out of a greenhouse and placed out of doors, and frequent syringings overhead are at all times beneficial in the hot, dry days of summer.

The reason the plants were soaking wet may be accounted for possibly because the shipper found them dry on arrival from Europe, and took the pre-

**DAHLIAS** WHOLE ROOTS.

Fine collection of varieties including Wm. Agnew, Nymphaea, John Bragg, Oban, Zulu, Beauty of Brentwood, etc., etc. Our selection, twenty varieties to a thousand, \$50.00. Purchaser's selection, twenty varieties to a thousand, \$60.00.

Wm. H. Moon Co.

Glenwood Nurseries MORRISVILLE, Bucks Co., PA.

NEW **CHRYSANTHEMUMS** FOR 1898

Alice F. Carey, Chempwee, Dolores, Minnewaska, Miss. Gladys Vanderbilt, Robert G. Carey, Spotswood, at \$3.50 per doz.; \$25.00 per 100.

JOHN P. MAY, Summit, New Jersey.

caution to insure their being wet clear through to the center of the "ball", which should be a mass of living roots, before shipping them to New Glasgow. It is nothing unusual for azaleas to drop their old leaves at this season of the year, especially under the circumstances. If they are kept in a temperature, say from 40° to 50° at night for a while and increased as their requirements demand, with lots of fresh air on every favorable occasion, and carefully attended to as to their wants in watering, they ought to

be in good condition for Easter, and make very much finer plants for the same purpose each succeeding year. E.

MT. KISCO, N. Y.—At the meeting of the Westchester County Horticultural Society on January 28, William Scott, of Tarrytown, read an interesting paper on "Indoor Culture of Roses." A. T. Marshall was elected president for 1898; Geo. Barton, vice president; Michael Green, treasurer and Herbert Spavins, secretary.

**Two Great Sports**  
**CARNATION** **CHRYSANTHEMUM**  
**VICTOR** **PENNSYLVANIA**

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth.  
Rooted cuttings now ready \$4.00 per 100; \$5.00 per 1000. Come and see this carnation growing.

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$5.00 per 100; \$20.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

**CHRYSANTHEMUM FRANK HARDY.** THE SENSATION OF THE SEASON

Certificated by the committees of the Chrysanthemum Society of America at New York, Chicago, Boston and Philadelphia.  
First prize among whites wherever exhibited. The best mid-season white to date and indispensable to every grower whether for exhibition or the cut flower trade.  
Plants ready March 1st and orders filled in rotation.

Price, per plant, 50c.; per dozen, \$3; per 100, \$20; per 1000, \$150.  
25 at 100 rate; 250 at 1000 rate.

**A. HERRINGTON,**  
FLDRHAM FARMS, MADISON, NEW JERSEY

**"BOSS" Chrysanthemums** WM. H. CHADWICK the grandest white novelty of the season.  
**THE YELLOW FELLOW**—Winner of \$100 Stearns bicycle prize.  
**MADLINE PRATT**—As pretty as her picture.

Distributed March 1st by leading firms and the grower,..... **Grove P. Rawson, Elmira, N. Y.**

**PEACOCK'S** Prize Winning Dahlias

All the Newest and Best Varieties

It pays to buy from the leading grower. We grew more than 20 acres of Dahlias the past season—more than any five (5) other growers in the world combined. Write us for wants and prices before purchasing elsewhere.

Our 1898 illustrated descriptive catalogue accurately describing all the leading new and old varieties is now in the printers hands and will be sent about Feb. 1st to all who received our 1897 list without application. Send for it, it will interest you.

W. P. PEACOCK, Atco, N. J.



**30,000 DAHLIAS**  
Before ordering your Dahlia stock be sure and send for my catalogue novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.  
W. W. WILMORE, Box 382, DENVER, COLO.

**Jardinieres, Pots AND Pedestals**



ADAPTED TO **Florists' Use.**

Artistic Shapes and Decorations.

Write us for Illustrations and Prices....

**BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.**

Denver.

The unusually dull cold weather of December and January has held back the roses and carnations, making the supply rather short; but the bright February sun will make them more abundant.

In looking round among the growers, bulbous stock has been planted late, probably because of the coming of Easter late this year. This seems a mistake especially with Von Sion, as it is always a popular flower for early decorations, and not an especial favorite for Easter.

There is a great complaint about Bermuda lilies, many of them coming blind. One grower said one-half of his would prove worthless. Valley are fine now and the first crop of lilacs appearing reminds one of approaching spring.

Society has been quite gay, and small decorations numerous. One table at an afternoon tea was a little out of the ordinary, the table was against curtains at the side of the room and a background made of palm leaves and white antirrhinum, caught with large French bows of green and white ribbon, the ends of this brought well to the front of the table, with an immense bow in which were mingled valley and fern; on each side of this were silver filagree baskets of valley, and in the center a vase of mammoth mignonette. The effect was cool and light, and quite appropriate for the cream and frappe which were served there by two pretty girls in green and white costumes, adding not a little to the attractive effect.

Thomas Chapman of the West side, and John Davis of the Gallup Floral Company, seem to be running a race on pauties counted not in thousands but in ten thousand lots; we wonder who will come out ahead. Mr. Chapman grows altogether in beds, Mr. Davis in cool houses until they can go in cold frames.

The Park Floral Company are showing some fine cyclamen plants which sell well, cinerarias and azaleas are just coming in and are selling well.

Morris, Ill.

The Morris Floral Co. under the management of Mr. Mitting has one of the most progressive establishments in this section of the country. The houses are new and modern in every detail. Mr. Mitting does not believe in false economy in building greenhouses, but thinks the best is the cheapest in the long run.

Aster, Verbena & Pansy Seed

- Truffaut's peony-flowered Perfection, mixed, 1/4 oz. 30 cts. 1 oz. \$1.00.
- Truffaut's peony-flowered Perfection, mixed, in separate colors, pure white, light blue, rose and white, and bright red, 1/4 oz. 30 cts., 1 oz. \$1.50, or 1 oz. of each of the 4 colors for \$5.00.
- Princess of Snowball (Aster), pure white, 1/4 oz. 75 cts. 1 oz. \$2.50.
- Mammoth Verbena, 100 colors mixed, 1/4 oz. 30 cts. 1 oz. \$1.00.
- Mitting's Pansy, large flowering, choice, 1/4 oz. \$1.00. 1 oz. \$4.00.

PLANTS.

- Alternanthera aurea nana and P. major, 2 1/4 in., strong \$2.00 per 100. \$15.00 per \$1000.
- 800 Robin Hood Carnation Cuttings to spare, strong and healthy, large scarlet, \$3.00 per 100.
- 500 Mrs. Chas. Dulme \$4.00 per 100.
- 500 C. A. Dana \$4.00 per 100.
- 2 000 Wm. Scott \$1.00 per 100, \$7.00 per 1000.
- 5 000 Coleus, 20 choice bedders, 2 1/4 in., \$1.50 per 100.
- Lycopodium Denticulatum, 2 1/4 in., \$2.00 per 100.

Our Growers' Trade List now ready.

THE MORRIS FLORAL CO.  
Morris, Ill.

He finds the demand for rooted cuttings is phenomenal in the new varieties of carnations, and in miscellaneous stock.

Mr. Mitting's experience with rust may convey a useful hint on the suppression of this pest. He has noticed that where the carnations are planted on high ground, in well drained soil, rust is not common; while in his lower ground, in a more marshy soil, rust is exceedingly troublesome. His Jubilees from the high ground are almost free from rust. His new clear yellow carnation Gold Pearl was cut down for propagating so that I could not see the blooms, which was a great disappointment.

JAMES HARTSHORNE.

Bloomington, Ill.

The death rate among prominent people the past month has been unusually

large. The receiving vault of Evergreen Cemetery has been literally lined with designs and bouquets. Probably the greatest number was at the funeral of Dr. Hallam, a prominent physician and member of secret orders. One design that attracted attention was from the Knights Templar, made by Mr. J. D. Robinson.

Mr. Hempstead is preparing to rebuild and enlarge his greenhouses. Mr. Hempstead is a hustler, and deserves the success he apparently has.

I see Mr. A. J. Graves, superintendent of Evergreen Cemetery, has built a greenhouse; it is to be used as a conservatory to keep and raise plants for the cemetery. He has the finest lot of coleus I have ever seen.

I hope to see everybody at the carnation exhibition next week. JAY.

FLOWER SEEDS The Best the World Produces. Complete Stock

A few extracts from our FLORISTS' LIST just published. If not received, write for it.

<p>ASTERS, Truffaut's Perfection, Victoria Comet, Queen of Market, Mignon, separate colors or mixed..... 25                  Begonia, New Dwarf Vernon..... 15                  Centaurea, Marguerite, white, new..... 25                  Balsam, White Perfection, oz., \$1.00..... 10</p>	<p>Trade pkt.                  COBEA scandens, purple, oz., 50c..... 10                  Petunia, Barnard's Double Mixture..... 50                  Salvia, Clara Bedman..... 25                  Stock, Cut and Come Again..... 25                  Verbena, Mammoth, oz., \$2.00..... 25</p>
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W. W. BARNARD & CO., Seedsmen, CHICAGO.

August Röiker & Sons, 52 Dey St. New York.

- Aster Comet, white, light blue, bluish, purple, carmine, rose and white..... 1/4 oz. each, 25c; trade pkt., 10c.
- Aster Queen-of-the-Market, white, light blue, purple, 1/4 oz. each, 15c; trade pkt., 10c.
- Asparagus Sprengerii..... \$1.50 for 100 seeds.
- Plumoseus Nanus..... 1.50
- Candytuft Empress..... 20c per oz; trade pkt., 5c.
- Candytuft New Dwarf, large flowered hybrids..... 10c per oz; trade pkt., 10c.
- Chrysanthemum Japanese, choice double mixed..... 1/4 oz., \$1; trade pkt., 25c.
- Imperial Japanese Giant Morning Glory..... 15c per oz; trade pkt., 5c.
- Lobelia Crystal Palace compacta, 1/4 oz., 30c; pkt., 15c.
- Mignonette Machet true..... 60c per oz; trade pkt., 5c.
- Nasturtium dwarf, mixed, 10c per oz; 50c per pound.
- Petunia Superbissima, giant flowers, grand strain, 1-32 oz., \$1.75; trade pkt., 50c.
- Phlox Nana Compacta, choice mixed..... 1/4 oz., 30c; trade pkt., 20c.
- Salvia Splendens Pendula, graceful drooping..... 1/4 oz., 30c; trade pkt., 20c.
- Verbena Mammoth, mixed..... \$1.50 per oz.; pkt., 10c.

August Röiker & Sons, 52 Dey St. New York.

It will be better for everybody if you mention the American Florist when writing advertisers on this page

WRITE  
R. & J. FARQUHAR & CO.  
SEEDSMEN

16 and 19 South Market Street,  
BOSTON

FOR THE CHOICEST AND BEST NEW CROP

FLOWER SEEDS

Neponset Paper Flower Pots, Pure Sheep Manure, and All Florists' Supplies.

Catalogues mailed free.

EXTRA CHOICE FLOWER SEEDS.  
List free on application.  
FRED. ROEMER, Seed Crower,  
Quedlinburg, Germany.

Grafted Roses.

On page 702 of the AMERICAN FLORIST of January 29 is a short note on grafting Belle Siebrecht rose.

I have had some experience with this variety grown on benches, in solid beds, grafted and on own roots. My experience with it has given me the opinion that it is no good for winter blooming.

The first year this rose was sent out I planted one hundred, own roots on a bench, but after the first few strong shoots, which were usually sent up in November, nothing but short miserable stems were obtained, I then concluded it should be grafted on some good vigorous stock to produce the necessary long stem.

The following February I grafted some 400 plants on the Manetti stock; they were grown on in 4-inch pots and planted in a well prepared solid bed in July. The bed in question was 6x100 feet, five rows of grafted plants, and one row of own roots were planted.

The grafted plants started off strong and vigorous and by November I had thrown up many strong shoots from the bottom two feet long.

I then congratulated myself that I knew how to manage this rose that so many people were condemning, but alas! by December 1, very few long stem roses were seen, and by January 10 most of the plants were pulled up and consigned to the rubbish heap. They made scarcely any growth during December and what few flowers were cut were such short stems they would scarcely pay for shipping. To my mind it is correct in saying the scion has as much, or more to do with the inclination to rest as has the stock upon which it is grafted.

The "Belle Siebrecht" rose is one of the best outdoor roses we have, but for winter forcing it does not come up to our standard varieties. W. W. COLES.

Grand Rapids Florists' Club Banquet.

The third annual banquet of the Grand Rapids Florists' Club was held at the Eagle hotel February 1, and was the most successful yet held. Our worthy president, N. B. Stover, passed round the

dessert in the shape of a brief history of the club since its organization on March 19, 1895. The programme of the evening consisting of recitations, songs and piano solos, was carried out without a hitch, reflecting great credit on the committee of arrangements, Wm. Cunningham, J. A. Creelman and Eli Cross.

The next meeting will be held at Alfred Hannah's, on East street, near Burton avenue, on February 15, in the afternoon. The florists will go early, so as to inspect the greenhouses before meeting.

F. A. Chapman recently had his violet house frozen, and some others had to sit up nights to keep the boilers warm.

A. L. Vaughan, of Vaughan, McKellar & Winterson, is in town canvassing the boys for orders in almost any line you please, as is also the agent of the Dayton Paper Novelty Co., of Dayton, Ohio.

GEO. F. CRAIG.

Kansas City.

Under a provision of the city ordinances owners of greenhouses are subject to a \$25 a year license. A committee protested to the city counselor against the license ordinance without avail.

The ordinance is a double taxation, as greenhouse men pay wagon licenses at the market each day for selling their products, and this license alone amount to from \$50 to \$80 a year. A remonstrance will be filed with the council.

Fresh American Beauties in England.

Mr. —, the rose-grower, has solved the problem of packing American Beauties. Some time ago he had an order for a huge bunch of this variety from a lady who wished to take them to Europe with her. In packing the roses Mr. — inserted each of the long stems into a potato, and on their arrival after the voyage they were found to be as fresh as if they had just been taken from the greenhouse. In a letter the lady said that the flowers kept well for a number of days after her arrival, and their beauty was greatly admired by her English friends.—Clipping.

[And then the lady could have the potatoes boiled or fried after they had

done duty as above. This point seems to have escaped the reporter. No Chicago newspaper man would ever have missed it.—Ed.]

NEW FORCING ROSE MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

H. WEBER & SONS, Oakland, Md.

Rooted Cuttings...

Am. Beauties, Brides, Maids, V. Kaiserin, Perles, Belle Siebrecht, Meteors. Same in 2-in. pots ready Feb. 15th to 20th. Send 50c for samples and get prices.

GEO. A. KUHLE, Pekin, Ill.

Carnation Cuttings ready Feb. 1st.

New American Rose

MRS. ROBERT GARRETT

As one of the syndicate holding stock in this rose we offer first class plants, from 2 1/2-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

AMERICAN ROSE CO. WASHINGTON, D. C.

300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers.

Send for prices.

The National Plant Company, Dayton, Ohio.

ROOTED CUTTINGS

ROSES.

Table listing roses: Bridesmaid, Brides, Perles, La France, Meteors, Kaiserin with prices per 100 and per 1000.

CARNATIONS.

Table listing carnations: William Scott, Nancy Hanks, Tidal Wave, Portia, Lizzie McCowan, Kohinoor, Mrs. Thompson, Daybreak, Emma Wocheer, Meteor, Goldfinch, Lizzie Gilbert, Harrison's White, Bridemaid, Nivea, Jubilee, Flora Hill with prices per 100 and per 1000.

FINE ROSE PLANTS

From 2 1/2 inch pots Ready February 1st

REINBERG BROS.,

51 Wabash Avenue, CHICAGO.

GRAFTED ROSES

MAIDS, BRIDES, METEORS, KAISERIN, HOSTE, MORGAN, CARNOT, Grafted on Manetti and

ONLY TO ORDER.

Prices \$1.00 per 100 \$12.50 per 1000

Send orders accepted after Feb 1st

H. F. LITTLEFIELD, Worcester, Mass.

Roses Roses Roses

Table listing roses: BRIDE, BRIDESMAID, METEOR, PRES. CARNOT, PERLE, SOUPERT, ROSELLA, 25 Other Choice Varieties with prices per 100 and 1000.

E. G. HILL & CO., = Richmond, Ind.

...ROOTED ROSES CUTTINGS

Table listing roses: AMERICAN BEAUTIES, BRIDES, BRIDESMAID, METEOR, KAISERIN, PERLE with prices per 100 and 1000.

Plants from 2 1/2-inch pots ready March 1.

J. A. BUDLONG, - STATION X, CHICAGO, ILL.



Bulbs In North Carolina.

ED. AM. FLORIST:—In reply to your request of the 27th in regard to bulb culture in North Carolina, I have to say that we are continuing our experiments in this line. I have never had means enough at my disposal to test the matter on a scale sufficiently extensive to attract attention in the market. We have demonstrated that we can grow here most of the bulbs now imported for forcing, of as good and better quality than the imported. This is particularly true of the Liliun candidum, which grows to an astonishing size and perfection of bulb. Tulips also do well, and we have had some handsome breaks in the so-called Darwin tulips. Lilies become weeds in the field from the scattered scales left in the ground at digging. We have done but little in the way of testing the Bermuda lily, but feel sure we can grow them in time for forcing and can grow good bulbs. Freesias do splendidly in frames with no protection but the glass sashes. Our Narcissus Tazetta bloomed in water ahead of the imported Chinese bulbs. Roman hyacinths, which have been in bloom for weeks now in the open ground, make splendid bulbs, some as much as six inches.

An experiment made in the eastern part of the state by a northern dealer failed, not because of the soil or climate, for the bulbs were very fine, but because the grower did not understand the curing, and had them to gun. We have grown and cured Romans that made eight spikes under glass. Narcissus Von Sion in the sandy soil of our Southern Pines station is rapidly outgrowing the green flower that was prevalent on the bulbs when imported. The bulbs are not as large as those grown here in loam soil, but are bright and solid, and force well. Gladioli do not do well in the locality where the tuberose is such a success, but in the upper country and among the western mountains they reach great perfection. The high plateaus of the upper French Broad in Transylvania county will be the place of all others for the culture of all the hardy azaleas and rhododendrons. The mountain sides there are solid thickets of Rhododendron maximum, and higher up Catawbiense forms dense thickets, and the flame-colored azalea and A. Vaseyi are also common. Mollis and the Ghent azaleas would find a congenial home in the deep black soil of this plateau, elevated 2,500 feet above the sea. The climate there would be too severe for the Chinese azaleas, but in the eastern part of the state there are vast areas of black peaty soil, where the Chinese azaleas flourish like the green bay tree. They do well here, but suffer from drought in our clay soil. From this eastern section too, where the gardenias grow to tree-like stature, the shipping of cut blooms in summer to watering places could be made a paying business. With the varied climate and soil of North Carolina there are places for almost anything from a palm tree to a hemlock and white pine.

Down on our lower coast the palmettos grow as tall in the forest as in Florida, while in the high lands of the western part of the state the forest growth of Canada prevails. In the long sunny slope to the sea between these two extremes there is place for almost any product. I am hoping to interest some one in the bulb culture to the extent of putting money into it. Our people are slow to take to new things and want to see returns at once, and few have the means to go into bulb culture, and still fewer know anything about it. The

culture of most of the winter bulbs is so different from that of the tuberose that the tuberose growers are slow to catch on, though they might grow some of them very successfully. About the only things they grow to any extent are tuberoses and Caladium esculentum. If the Department at Washington would let the stations have some of the money wasted in free seeds to extend the work in bulb culture a great industry could soon be established here.

W. F. MASSEY.

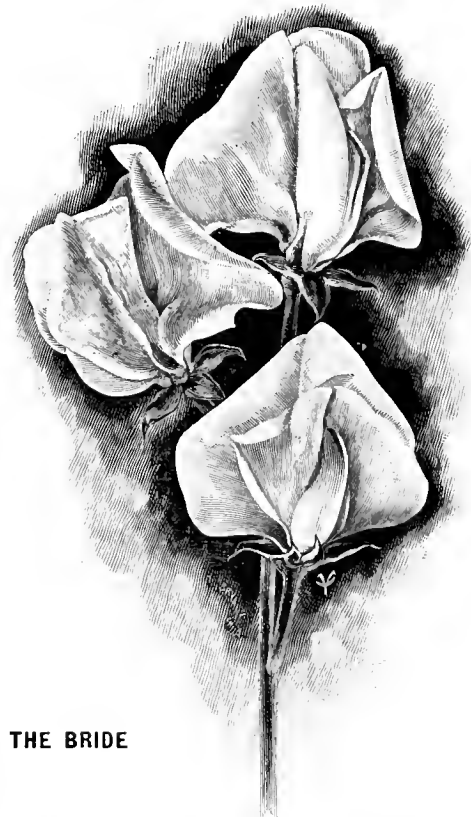
BUTTE MONT.—Trade has been good for the month of January, especially in funeral work, as there has been an epidemic of suicides, murders and accidental deaths. Most stock is shipped into the city from a distance, but such stock does not fill the bill as there are many good judges of flowers among the buyers here. Law Brothers & Day will build two new houses 20x100 feet each this spring. The Silver Bow Floral Co. have given up their retail store.

SMOKE EATER.

THREE NEW CALIFORNIA

SWEET PEAS

Originated by M. Lynch, Menlo Park, Calif.



THE BRIDE

THE BRIDE This beautiful large, white-seeded variety is the best White Sweet Pea to date. It is a pure white selection from Mrs. Eckford and is the strongest germinator among all the white-seeded varieties—so often poor growers. Grown for the cut-flower market of San Francisco in competition with the other high class whites, it has brought the highest figures over them all, taking first rank among all the whites. The flowers are pure white of fine substance, large and of true grandiflora type. Beside this every seed will grow. Perfect flowers were cut as early as April 16 last year. Price, per lb., \$2.00; 1-4 lb., 60c; oz., 20c; pkt., 10c.

The Cornell Bulletin in naming the best Sweet Peas of each color, classes The Bride first as a white, with Emily Hendersoo second and Blanche Burpee third.

Frank Pelcano, a leading florist of San Francisco, stated: "We can sell more Bride Sweet Pea blooms than those of any other variety which we have ever handled."

Prof. Tracy, in a recent review of some of the newer Sweet Peas says: "The especial merit of this variety (The Bride) is in its length, strength and grace of flower stem, and the disposition of the blooms thereon, being one of our best sorts in these respects, and forming an exceedingly graceful bunch."

EMILY LYNCH The earliest of all Sweet Peas. Sown alongside of Extra Early Blanche Ferry it was in bud in 63 days, while the latter showed no sign of buds at that time. It blooms two weeks earlier than Extra Blanche Ferry. The standard is pink, shading to bright rose, wings buff suffused with pink, Grandiflora style. A great advance on Duke of York. Price, 1-4 lb., 60c; oz., 20c; pkt., 10c.

CALIFORNIA This is the best "self-color" in soft pink, of the shade of Day-break Carnation, the lightest self among all Sweet Peas. The form and size are perfect. Rev. W. T. Hutchins says of it: "It is different from all our other self-pinks and a good thing." Price, 1-4 lb., 60c; oz., 20c; pkt., 10c.

Mr. Lynch has sent us his entire stock which we offer to the trade as above.

14 BARCLAY STREET, NEW YORK.

VAUGHAN'S SEED STORE,

84 & 86 RANDOLPH STREET, CHICAGO.



SOW NOW

BEGONIAS of the Semperflorens type, of which "Vernon" is a shining example. We have some improvements upon the good old Vernon that we desire everybody to try. Here they are:

- CRIMSON GEM
- CORAL GEM
- DUCHESS OF EDINBURG
- MIXED

One of the most effective Begonias of the Semperflorens type; excellent for bedding; the flowers are of a rich red, and the foliage crimson bronze. \$1.00 per trade pkt.; 50c per half trade pkt.

A distinct and attractive flower of a pale rose or peach color. The habit of the plant is remarkably good, and the plants bloom profusely. \$1.00 per trade pkt.; 50c per half trade pkt.

An exceedingly beautiful and profuse blooming Begonia. The plant is robust and has proved to be almost a continuous bloomer. Flowers white, suffused with pink, and twice the size of the ordinary B. Semperflorens. \$1.00 per trade pkt.; 50c per half trade pkt.

\$1.00 per trade pkt.; 50c per half trade pkt.

This is American saved seed, and the germinating tests are most satisfactory. It comes up quickly and the little plants grow with great rapidity. Seed sown now will make fine plants for Spring sales. Order at once, and a leaflet "How to Grow Begonia Semperflorens from Seed" will be sent with each order.

Cash with the Order. Money Order P. O. Station H.

A. H. LONSDALE & CO.,

Specialists, PHILADELPHIA, PA.

California Grown Rose Plants for the Easter Market.

The Jackson & Perkins Co., of Newark, N. Y., speaking of their experiment in growing roses in California advise us as follows:

We have sent about 150,000 young roses to California to be grown and they are thus far doing very nicely indeed. These were all propagated here, but as soon as we get matters in a little better shape we expect to have the propagating done entirely in California.

We experimented with rose growing a little there last year, sending 10,000 plants then. They came back to us with an amount of growth upon them that was perfectly surprising. La France, American Beauty and Mrs. John Laing which are very slow growing sorts out doors here and of which, it is impossible to grow very strong plants even in two seasons, will, in California, make plants three feet or more in height in one season.

The bulk of our planting in California this season has been of the more moderate growing H. P. varieties. We also planted quite a quantity of H. T.'s and Bourbons, including Wootton, Etoile de Lyon, Malmaison, etc., and we are working up a considerable stock of forcing roses. We believe that we can get some fine strong plants of these varieties and have them sent East ready for sale by about holiday time.

We are also trying about 40,000 clematis, believing that we can produce some exceptionally fine strong plants there. There is nothing quite equal to the convenience and value of having water right at hand to turn on whenever it is needed,

instead of having to depend upon rainfall. We do not believe that the plan of growing roses in California from field rooted cuttings will ever be very successful as it is altogether too uncertain. Occasionally a very good and fine crop can be secured, but more frequently one is obliged to cultivate and irrigate about three times as much land as is covered by the proportion of plants that live and grow. All of our roses will be grown from one eye cuttings, rooted in beds and transplanted to the fields afterwards. We find that this makes a much more symmetrical, stocky and well-rooted plant, than can ever be obtained from long field-rooted cuttings.

MITCHELL, S. D.—Trade has been good and prospects are rosy. There will be quantities of shrubbery and ornamental trees put out in the spring.

**Boilers** OF HIGH GRADE.

For GREENHOUSES.

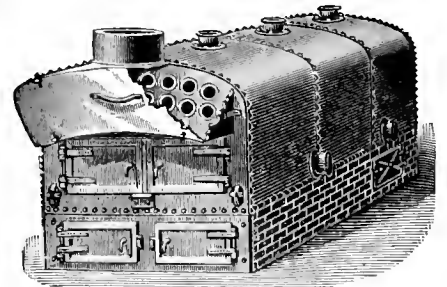
See our Catalogue. . . . .

Steam and Hot Water. Giblin & Co., Utica, N. Y.



**GREEN-HOUSE HEATING.**  
**MYERS & CO.**  
1518 & 1520 S. 9th St.  
PHILADELPHIA.  
Send for catalogue and price list.

**KROESCHELL BROS. CO.**  
IMPROVED  
**Greenhouse \* Boiler,**  
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

**NEW & SECOND-HAND MATERIAL,** purchased from Sheriff, Receiver, and Assignee sales at less than one-half prices. Pipe and Fittings, Hose, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe, Glass Sash and thousands of other articles, for sale by

**CHICAGO HOUSE WRECKING CO.**  
Largest Mail Order Depot for New and Second-Hand Material in the World.  
W. 35TH & IRON STS., CHICAGO.  
Write for our free illustrated catalogues.

**THE ESLER HOSE IS THE BEST**

It is used by the leading Florists and is giving satisfaction. Try it and be convinced. For price Address.

J. G. & A. ESLER, Saddle River, N. J.

**LAST CALL FOR NAMES**

\*\*\* TO BE INSERTED IN \*\*\*

**THE AMERICAN FLORIST COMPANY'S DIRECTORY**

Of Florists, Seedsmen and Nurserymen to which are added lists of Parks, Park Superintendents, Cemeteries and Cemetery Superintendents. A complete list of all persons in the above trades in the United States and Canada, by towns; also a complete list of the same names, alphabetically arranged.

SEND US YOUR BUSINESS CARD OR LETTER HEAD OR ANY OTHER PRINTED MATTER, AND WE WILL SEE THAT YOUR NAME IS INSERTED FREE OF CHARGE

A LIMITED NUMBER OF ADVERTISEMENTS FOR THIS DIRECTORY WILL BE ACCEPTED RATES ON APPLICATION.....



**American Florist Company**

324 DEARBORN STREET,

Chicago....

**WHAT WE KNOW**

**ABOUT GLASS**

Send for them.

\*\*\* JOHN LUCAS & CO., Philadelphia.

## Omaha.

Thanks to the courtesy of a local florist, the writer spent last Monday visiting the various floral establishments of this thriving western city.

As a rule the florists seem to be in the best of spirits and they aver that they have nothing to complain of, for the trade is about equally divided, and business prospects are brighter than they have been for years past. Of course there are a few pessimists who are grumbling at the "deterioration of the business" (they do not take the *FLORIST*, however), but the hustlers are decidedly optimistic and seem serenely confident of the success which is theirs by right.

As there are no street fakirs in the place, and but little competition compared to its size, the prices should be much better; the leading florists are struggling at the present time to establish a higher standard in this direction. To one accustomed to Eastern prices it seems ridiculous that good stock must be sold for almost less than Chicago wholesalers can market it; but as in other places, the feeling among a certain class of florists is to undersell on the threadbare plea of holding custom.

The Florists' Club which was recently organized is doing much to promote a fraternal spirit of good fellowship, and it is hoped that in the future there will be more co-operation than there has been in the past.

Every one is looking forward to the convention of the S. A. F. in August, and many schemes are being devised for royal entertainment. Bowling is also becoming quite a favorite sport here, and the thirty-six members of the Florists' Club contemplate organizing a bowling club and fitting up rooms before the convention takes place. Forewarned is forearmed.

It was the writer's pleasure to spend a delightful hour in the hospitable family of A. Donaghue, vice-president of the S. A. F. Mr. Donaghue has practically retired from the business, and his son, A. Donaghue, Jr., has charge of the entire concern. Their greenhouses are in particularly fine condition. Mr. Donaghue, like the majority of his brother florists, is planning everything to meet the needs of the coming exposition. Mr. Donaghue has a fine lot of cinerarias and freesias just coming into bloom. His roses are excellent. The Beauties, Brides and Maids are grown in a short span to the south house, but Mr. D. affirms that he can see no real value in the short span roof.

Lewis Henderson has some good houses, and is doing a very fair business. He is in the vicinity of the packing houses, and much of his trade comes from these establishments. Mr. Henderson, who, by the way, is one of the managing directors of the State Horticultural Society, has carried off first premiums for floral designs and exhibits at the S. H. S. fairs for a good many years. He has an interesting display of cloth flowers in his window that are made so perfectly and arranged so artistically that they look very natural. This is the work of his clerk, Joseph Dunn. Mr. Henderson expects to take a special place at the Trans-Mississippi for his cacti.

Petersen Bros. have a fine lot of Easter lilies coming on. There are a few uneven ones, as has been the case for the past few years, but the cripples are soon thrown out and the stock well kept up.

Hess & Swoboda expect to make some improvements in their greenhouses this

spring. They seem to excel in good azaleas and violets.

Under the firm name of J. W. & E. E. Arnold, Miss Cassie Arnold is conducting a magnificent business, and she deserves great credit for the success she has already achieved. Miss Arnold is a very young woman (the writer forgot to ask her age), but she is thoroughly capable and genial, therefore she has built up a fine trade in a short time. The Arnold store is about to be handsomely refitted.

The demand for cut flowers seems to be more than the supply, for although the majority of dealers grow more or less stock they are obliged to call upon J. F. Wilcox, of Council Bluffs, frequently.

L. DEW.

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It is now time to bring in a few of each variety of bulbs potted or boxed weeks ago, which have made considerable root by this time. It is a good plan to bring in a few each week, unless you have taken care to use only the special varieties of hyacinths for early flowering. You will have a few that show color before the spike rises above the ground, particularly among the double varieties. Invert a 2-inch pot over the spike; this will draw it out some. These same varieties will do well for you if held back until March, so if you have them under name, bring in one of the earliest varieties now.

It is time to sort your hydrangeas about the middle of February, so bring them in from your cold house; you will notice they are beginning to push out leaf buds. We went over all of our plants last September, shifting those that were pot bound. If you did not do so then, do so now; clean off all the dead leaves, and be sure the drainage of each plant is perfect. Place them in a house where the temperature is not above 50° at night, and 60° to 65° day time; as we get into March and April increase the temperature, maintaining the same ratio as compared with weather outside.

If you have large specimen plants three to six feet high for decoration and not wanted before June, hold them at least two weeks later in the cold.

When you place hydrangeas in position for spring growth, be careful. Some plants you can put together as pots will stand at first, and separate later. With a hydrangea it is economy to get it just right at once, so that it will not be moved one inch until ready for market.

When you provide violets for next season, remember that odor is an essential, and size another. Procure some of the old-fashioned English single varieties that are so very fragrant; treat same as the other varieties. When bunching the violets for market, put in four or five of these strong scented single flowers without extra charge, or even mentioning them, and see how quick you will get a reputation for having fresh and the sweetest violets.

There is one plant, old-fashioned, which should be cared for now, the lantana. Shake out the old plants and put in a few cuttings by selecting two or three cuts, and training to standard just as you grow standard chrysanthemums. When two or three years old, they are quite pretty. Summer or fall they are a novelty in your store for days, or for some decoration you can frequently hire them out. Very often you can sell a number for a good price.

The mantophyllum needs a top dressing by March 1, or some earlier. If you have some very large clumps and wish to divide them, do so at once. They do not stand separation very well, and are also set back in the operation. Do not divide all you have in one season; it is best to have a few each year that have not been tampered with at the root; give the balance a good rich top dressing and be sure drainage is good, water freely.

C. B. W.

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It might be possible to circulate steam as "Subscriber" describes from an upright boiler on a level floor of his shed, but I certainly should not advise trying it, as it would be much safer, and in the end much more economical, to sink a pit for the boiler, so that it stands at least below the level of the return pipes in the greenhouse.

I do not quite understand his question: "How large a flue boiler would be required, etc?" for the reason that boiler makers, as a rule, make the flue opening of equal size for the requirements of each different size boiler they make. On the other hand, if he means how large the tubes would require to be, that is another matter that can be regulated to suit the circumstance, as boiler tubes are made one and one-half to four or five inches, generally they are made about three or three and a quarter inches in diameter, but the size of boiler required to heat the amount of pipe given would require about a ten horse-power boiler to be safe for all weather.

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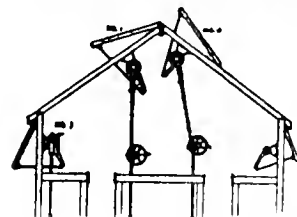
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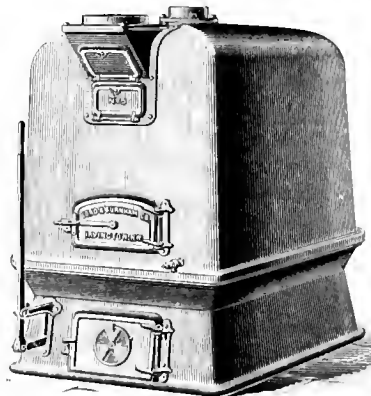
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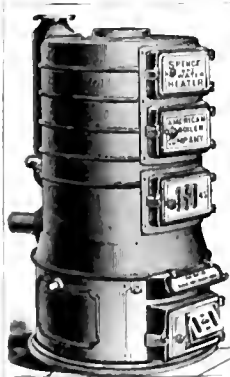
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Vol. XIII.

CHICAGO AND NEW YORK, FEBRUARY 19, 1898.

No. 507.

## THE AMERICAN FLORIST

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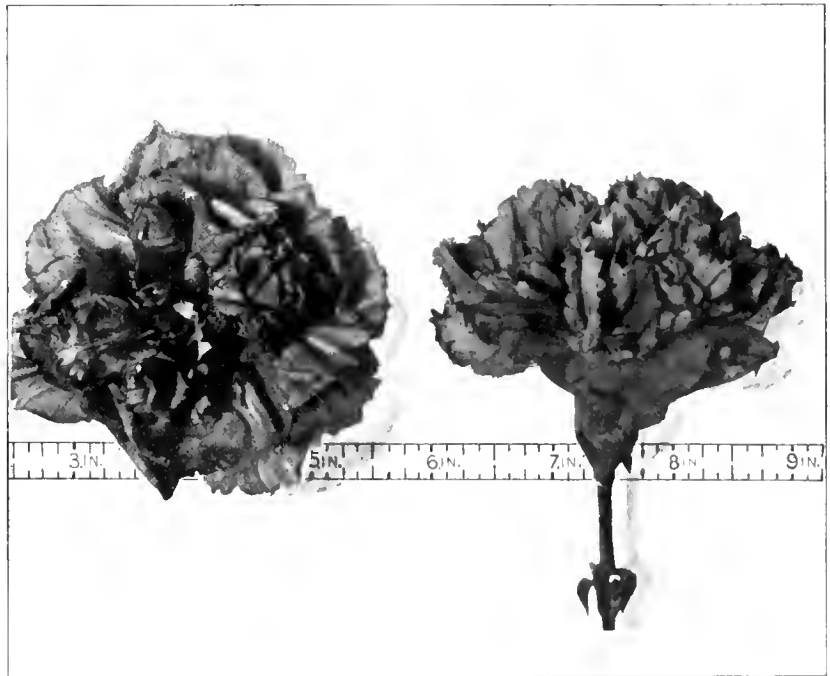
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### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

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The Skirm bill . . . . .	789
Philadelphia . . . . .	789
Detroit . . . . .	789
S. A. F. and Ornamental Horticulturists . . . . .	793
St. Louis . . . . .	793
The free seed distribution . . . . .	794
The seed trade . . . . .	795
Of importance to importers . . . . .	795
American potatoes in England . . . . .	795
Toronto . . . . .	795
Dracenas . . . . .	799
Milwaukee, Wis. . . . .	799
Old rose soil . . . . .	798
Pittsburg . . . . .	799
Rochester, N. Y. . . . .	803
Worcester, Mass. . . . .	804
Cincinnati . . . . .	805
Buffalo . . . . .	806
Cleveland florists' club . . . . .	806
Freesia bulbs for 1898 . . . . .	806
Cleveland . . . . .	807
Fern notes . . . . .	809
Youngstown, O. . . . .	809
Los Angeles, Cal. . . . .	810
Omaha . . . . .	810
Helpful reminders . . . . .	811



CARNATION MRS. THOS. LAWSON.

## AMERICAN CARNATION SOCIETY.

SEVENTH ANNUAL CONVENTION, CHICAGO, FEBRUARY 18 and 19, 1898.

### Preliminary.

Notwithstanding the predictions to the effect that the 1898 gathering of carnation growers would be a small one, the men interested in the work of the society began to arrive early, and before noon of the first day of the convention, Thursday, February 17, a large and thoroughly representative meeting was assured. With few exceptions all the prominent authorities on carnation matters attended in person, and most of the others had able advocates on hand.

With the earliest arrivals was Albert M. Herr, of Lancaster, Pa., the energetic secretary of the society. He arrived early on Wednesday, closely followed by S. S. Skidelsky, of Philadelphia. Later in the day the stream grew thick and fast, and still they were coming at noon Thursday. Among the visitors we noticed C. W.

Ward, Queens, N. Y.; W. W. Coles, Kokomo, Ind.; Adam Graham, Cleveland, O.; E. G. Hill, Richmond, Ind.; D. B. Long, Buffalo, N. Y.; Fred Dorner, Sr., and Fred Dorner, Jr., Lafayette, Ind.; Fred Breitmeyer, Detroit, Mich.; Wm. Scott, Buffalo, N. Y.

On the arrival of Mr. Breitmeyer Thursday morning some anxiety was felt as to the safety of Harry Balsley, Frank Holznagle and others of the Detroit delegation, who were reported to be due the previous day. An hour later, however, the gloom was dispelled by the appearance of Harry and his friends. Some mystery exists regarding their whereabouts during the previous twenty-four hours, but Balsley's check suit is still resplendent as a new variety. The judges have awarded it 100 points for loudness. Additional arrivals were E. H. Michel,

St. Louis, Mo.; Wm. P. Craig, Philadelphia, Pa.; Wm. Wallace, New York; Mr. Joy, Nashville, Tenn.; W. J. Vesey, Fort Wayne, Ind.; Mr. Evans, Mr. Mitting, Morris, Ill.; Jas. Hartshorne, Joliet, Ill.; Wm. Nicholson, Framingham, Mass.; C. W. Johnson, Mt. Greenwood, Ill.; Jos. Tailby, Wellesley, Mass.; Fred Lemon, Richmond, Ind.; Uncle John Thorpe, H. Weber, Oakland, Md.; Wm. Swayne, Kennett Square, Pa.; Mr. Reardon.

The Cincinnati delegation arrived Thursday morning, and their bright red badges attracted much attention. In this group were E. H. Gilsey, Albert Sunderbruch, H. Williams, J. A. Peterson, Wm. Murphy, R. Witterstaetter, Wm. Schuman, Ben George, Geo. S. Bartlett, Jul. Baer, E. G. Gillett, and another gentleman who was so deeply interested in a discussion on carnation matters that we considered it unsafe to put the usual inquiry.

#### Thursday's Business.

The opening session was called at 10:30 Thursday morning, when the president's address was followed by the appointment of the judges, Wm. Nicholson, Adam Graham and Wm. Scott were selected to

exhibits were ready for the judges. The display was fully as extensive as any the society has had, and the blooms of far higher quality than those seen at earlier exhibitions.

The improvement was particularly noticeable in the stems, which in the case of such varieties as Mayor Pingree, Mrs. McBurney and Jubilee apparently left little to be desired in this respect. The flowers were larger and purer in color; but while solid progress is evident here, the improvement has not kept pace with that of the stems. It will be obvious from this—from the fact that stems of the right character are no longer among the impossible things—that greater attention must now be given to the development of size, color and form in the flowers.

Perhaps the most extraordinary feature of this exhibition was the arrival of a large case of blooms in excellent condition from John H. Sievers, of San Francisco. This was consigned through J. C. Vaughan, of this city, and on investigation we found that special effort had been made to insure the arrival of these flowers in the superior condition in which they were staged. The flowers were packed in a large case February 13, the stems being immersed in tubes fourteen

#### Awards.

The judges report that there was no entry for the Breitmeyer prize for 100 blooms of Mayor Pingree.

The Breitmeyer prize for fifty blooms of Mayor Pingree was awarded to W. N. Rudd, Mt. Greenwood, Ill.

Breitmeyer prize for twelve blooms of Mayor Pingree—W. N. Rudd.

Hill prize for 100 blooms of Flora Hill—1st, W. N. Rudd; 2nd, Wm. P. Craig, Philadelphia, Pa.

Prize for 100 blooms of Triumph—H. Weber & Sons, Oakland, Md.

Cottage Gardens cup for the best yellow or yellow variegated seedling not yet distributed—F. Dörner & Sons Co.

In the preliminary certificate class, Peter Fisher, Montvale, Mass., was granted a certificate for Mrs. Thomas Lawson, scoring eighty-five points.

Jos. Tailby, Wellesley, Mass., scored sixty-eight points with Wellesley.

E. G. Hill & Co., Richmond, Ind., scored with several varieties as follows: America, eighty points; Arbutus, eighty points; Scarlet Queen, eighty points; Prima Donna, seventy-three points.

In the three year seedling certificate class Frank Niquet, Patchogue, N. Y., scored eighty points with Maud Adams.

Wm. Swayne, Kennett Square, Pa., secured a certificate with Empress, scoring ninety-six points.

R. Witterstaetter, Sedamsville, O., likewise won a certificate with Evelina, ninety-four points.

W. J. Vesey, Fort Wayne, Ind., scored eighty points with Fort Wayne.

Stollery Bros., Chicago, were awarded ninety-one points and a certificate for Argyle.

Dörner & Sons Co., Lafayette, Ind., were given a certificate for G. H. Crane, scoring ninety-two points.

So far as the above seedling classes are concerned, it should be remembered that certificates are given only to such varieties as secure eighty-five or more points, and in the case of Maud Adams no plant was exhibited as required by the regulations for 3-year old seedlings.

Vase 100 white, 1st, E. G. Hill & Co., Flora Hill; 2nd, Dörner & Sons Co., White Cloud.

Vase 100 light pink, 1st, W. N. Rudd, Mrs. McBurney; 2nd, Weber & Sons, Mrs. McBurney.

Vase 100 scarlet, 1st, E. G. Hill & Co., Jubilee; 2nd, W. N. Rudd, Jubilee.

Vase 100 yellow variegated, 1st, W. N. Rudd, Mayor Pingree; 2nd, Dörner & Sons Co., Gold Nugget.

Vase 100 crimson, 1st, Breitmeyer & Sons, Meteor.

Vase of 100 white variegated, 1st, Dörner & Sons Co., Mrs. G. M. Bradt.

Vase 100 Lily Dean, 1st, Wm. P. Craig.

Vase 100 Armazindy, 1st, Wictor Bros., Chicago.

Vase fifty Alaska, 1st, South Park Floral Co., Chicago.

Vase fifty any other white, E. G. Hill & Co., Flora Hill.

Vase fifty Hector, 1st, H. Weber & Sons.

Vase fifty Jubilee, 1st, Wm. P. Craig.

Vase fifty Portia, 1st, Wm. Murphy.

Vase fifty scarlet, 1st, Dörner & Sons Co., Dazzle.

Vase fifty Tidal Wave, 1st, H. N. Higginbotham.

Vase fifty Scotts, 1st, Weber & Sons.

Vase fifty Daybreaks, 1st, Weber & Sons.

Vase fifty any other pink, lighter than Scott, 1st, South Park Floral Co., Albertini.

Vase fifty Armazindy, 1st, E. G. Hill & Co.

Vase fifty Helen Keller, 1st, South Park Floral Co.



CARNATION HANNA HOBART.

and E. G. Gillett, and special carnations of E. H. John, E. G. Gillett and Fred Niquet performed a like duty in the case of the others. In the absence of H. B. Baer, W. W. Coles was appointed to fill his place.

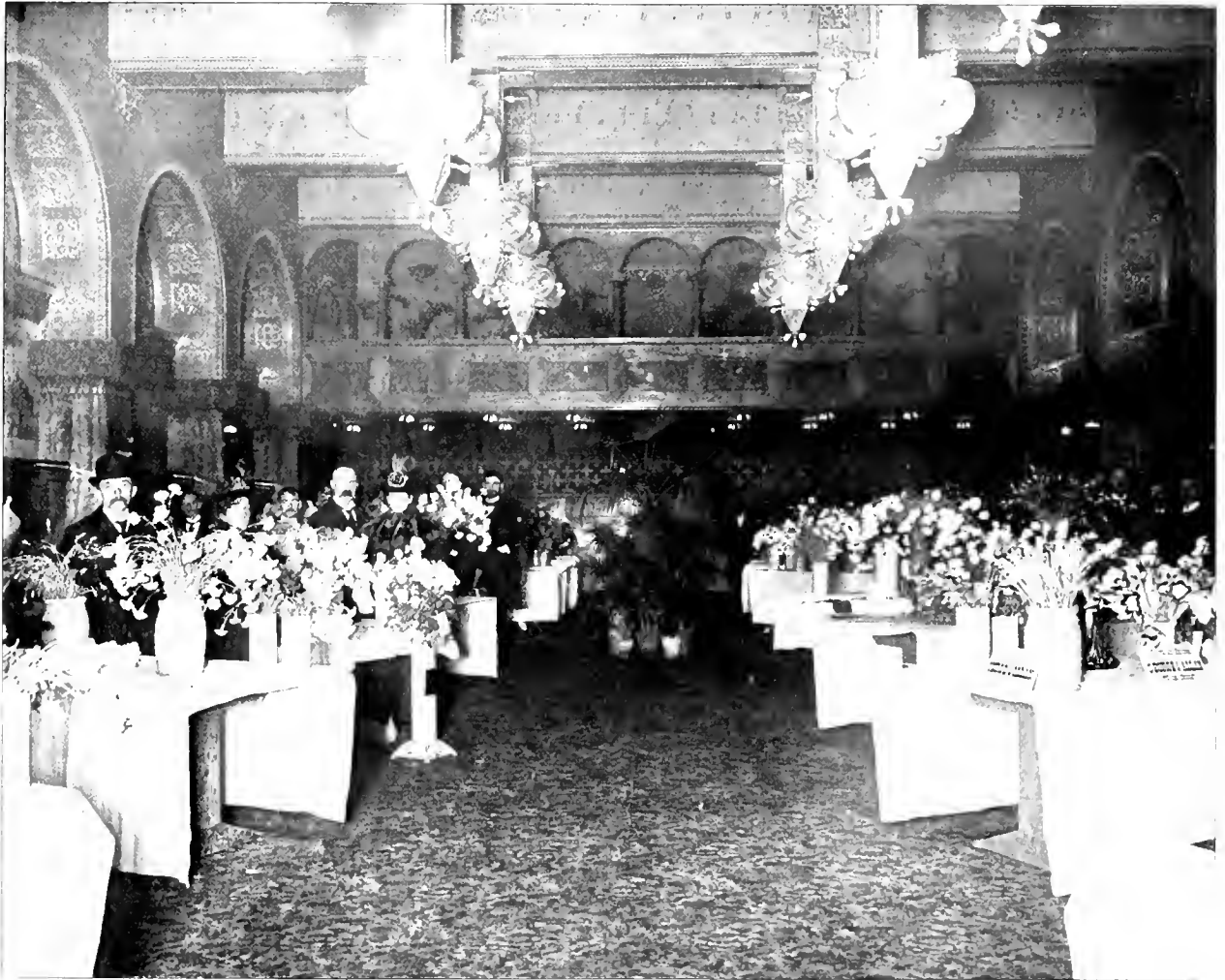
#### The Exhibition.

The exhibition well presented the usual carnation collection of the evening of the opening of the show, in the cases of the specimens of the variety were strewn from the cases of the exhibitors, Ohio, Idaho, California and other states, the carnations of the same color and of the same variety being from the

inches high, two inches in diameter and made fast to the bottom of the case. The tubes, of course, were filled with water, and packed in such manner with moss and the stems of the carnations that the water could not escape to any considerable extent.

Not only did these flowers arrive in good condition on the opening day of the exhibition (the fourth day after packing), but some samples of Hanna Hobart, among the dozen or more seedlings represented in the collection, had flowers of a deep pink shade and larger and finer than anything we remember to have seen in the way of winter flowering carnations.





EXHIBITION AND BANQUET HALL, AUDITORIUM HOTEL.

Vase fifty Eldorado, 1st, Weber & Sons.  
Vase fifty any other yellow, 1st, Weber & Sons, Buttercup.

Vase twenty-five best blooms of pink, lighter than Scott into 1897, 1st, W. N. Rudd, Mrs. McBurney.

Vase best any other color, 1st, Fred Dorner & Sons Co., Mrs. Geo. M. Bradt.

#### The Introduction of New Varieties and their Commercial Value as Far as Can be Ascertained.

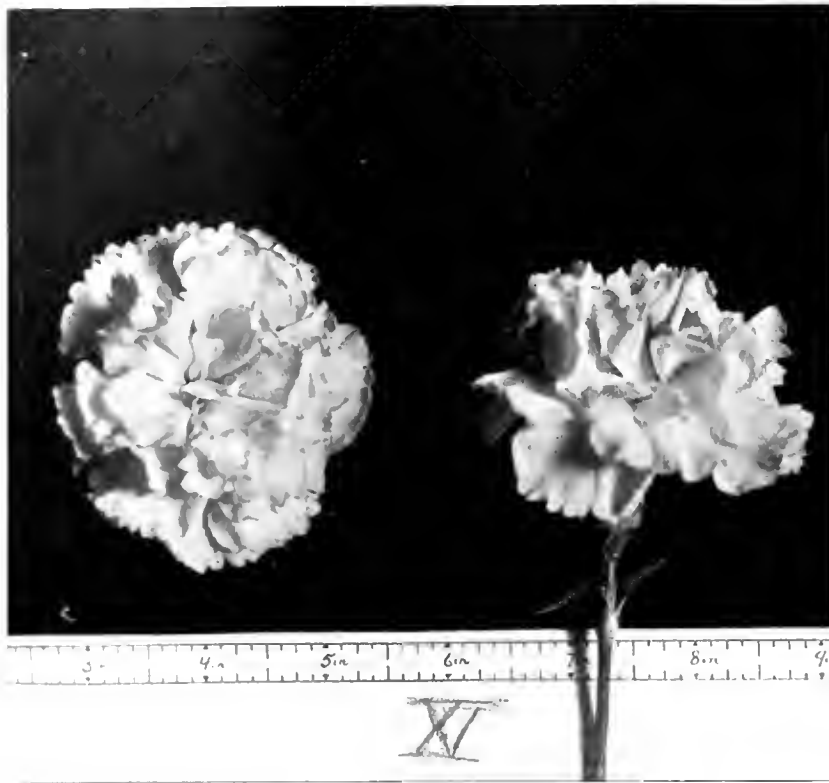
BY FRED. DORNER, LAFAYETTE, IND.

What are commercial varieties and in what does their value consist? I believe many entertain erroneous ideas, that will lead to erroneous opinions and conclusions, detrimental to a progressive evolution of the carnation. The general conception of a commercial variety in the first place embraces quantity, quality is second. If so many flowers were cut to a plant, so many thousands of flowers were marketed and sold from a house is conclusive with many. That they were sold shows, that quality was of a grade sufficient to effect a sale. But now let us go a little farther and compare these commercial varieties, with some that are not so prolific in quantity, but superior in quality, and consequently to this idea

are outside the apprehended range of a commercial variety. Let us compare prices, at which these different varieties are generally sold, if higher or lower the difference remains proportionately the same. Suppose 100 blooms, the product of these plants, are sold at \$2 or 2 cents each. Now to my experience the following grades, all the product of these plants, can be grown at the same cost, but as quantity diminishes, quality improves. Ninety blooms may bring \$2.25 or 2½ cents each. Eighty blooms may bring \$2.40 or 3 cents each. Seventy blooms may bring \$2.45 or 3½ cents each. Sixty blooms may be sold at \$2.40, bringing as much as the eighty blooms. Now it is not uncommon that an extra fine variety is sold at \$5 per hundred, but we will allow only fifty blooms to the three plants, that is, one-half of the first mentioned makes \$2.50 or 50 cents more for one-half the number of blooms but of superior quality. I believe I am only stating facts as they appear every day in every flower market of this land. Fifty cents more on the returns from three plants does not seem very much, but on a houseful, say about 2000 plants, aggregates to \$330. What is of the greatest value in a variety, quantity or quality? I believe that we had better delegate

these apprehended commercial varieties to the second rank and pay more attention to the others. It is always acceptable when we have a variety of fine quality and can also cut many blooms to a plant, but the trend in improvements includes size also, and we go rather beyond nature's power if we expect both at the same time.

The introduction of new varieties in the past has in many instances been a failure, resulting from different causes, some from natural consequences that could not be foreseen, but others were neglect, ignorance and avarice, as overtaxing of nature's ability, were potent factors, and places the introduction of new varieties in an odious light. Disappointments and losses as they are too often experienced, makes the purchasers suspicious of the new varieties offered every year; he expects for his good money what he was offered in the glowing advertisements. We must admit that there are cases where the disseminator cannot be held responsible for such things as change of location and different modes of treatment, and these are by no means the least. But there are others that can be avoided by a conscientious grower, but a novice in the originating and growing of new varieties is



CARNATION ARBUTUS.

only too apt to overlook defects. In the admiration of his work he looks with loving eyes at his pets, and let me tell you that where new varieties are treated as pets, a rigid thorough trial such as is necessary to determine the good and bad properties of a variety is impossible. Another cause is the too high culture in the effort to make a good showing that cannot be kept up under ordinary good culture for profit. The growing and introduction of new varieties is a business, and as in every other trade one must be prepared to meet misrepresentations by unscrupulous people. On the other hand, when a grower conscientiously gives his new varieties a thorough trial it convinces him of their true value and justifies dissemination; he expects a compensation they will pay him for his work, and he can hardly be held responsible for the shortcomings that may appear after, of which he was unaware.

As our present mode of judging new varieties is carried on, the exhibitor has a great advantage over the one who depends on the decision of the judges in the investment of new varieties. The judge can only judge what they see, whether the exhibitor would have been better off with a smaller showing one or two months earlier or later, as outside of the exhibition ground a true representation of the facts. The showing of one variety at one exhibition, and of the same variety at another, suggests a system of offering to the exhibitor these displays, and of holding them at their home. It would be well to have an opinion on this matter by the present system of holding exhibitions, and it could be, if the exhibitor would, grown out of the exhibition ground, than the

society or the growers would care to shoulder.

One other suggestion is to appoint stations for trial in different parts of the country. This meets with opposition from

the grower, for it can hardly be expected that they should be of such a philanthropic disposition as to scatter their new varieties over the country. And if the growers should favor such a proposition, as present indications are a large house would be filled at each station with applicants for honor. Who would undertake such a venture, and who would pay the expenses? What we need is a system that determines the value of a variety at least through the most important part of the season, and not only when they can be shown at their best but exposing their defects, without encroaching upon the rights of the grower; and further to give a purchaser who takes the verdict of the judges as a guidance a chance to judge to some extent for himself. Such a system to my idea could be arranged and besides would be inexpensive, as I will show later on.

Our carnations are in the market the whole year, and we would like to know how a new variety behaves itself at least during the most important part—the late fall and early winter months. Now why not follow the chrysanthemum society and appoint standing committees in the principal cities and let them sit once a month for five successive months, say on the 15th of November, December, January, February and March. It is to the interest of the exhibitor to show a variety with as many committees as possible if he is fortunate to possess enough stock to do so, but he has to show the same variety each month with at least one committee and if it scores three times of the required number of five times it has to be shown, this will entitle it to the society certificate.

If a grower wishes to magnify the value of his certificate, he has only to show on a large scale, that is, with as many committees as possible. If sent from a distance the condition in which the flowers arrive should receive special attention.



CARNATION O. H. CRANE.

If it misses a show at any of the appointed towns, this would indicate that the plants are not blooming at that town. If a shipment should accidentally get spoiled in transit, the exhibitor should at once be notified, and allowed to make another one within a week's time to be judged. If a grower wishes to disseminate a variety during the season of judging and he can score high enough the first three months, a certificate will certainly be of value to him.

A certificate received under this mode of judging is valuable alike to the disseminator and to those who wish to invest. To increase further its value to the latter the result of each month's judging should be published at once in all of the trade papers, not only to mention the aggregate of points scored, but to give the details of the scale by which a variety is judged. It is of the greatest value to those who wish to buy to know exactly the specific points a variety receives; in this way the purchaser, having a record in the publications, is to a large extent his own judge and the committees are the appraisers. By publishing the whole, the line drawn by the limit of eighty-five points securing a certificate, and eighty-four points not receiving one, is not so severe, yet a variety missing a certificate by a few points may yet prove valuable to many when they can judge for themselves when they know in what part this particular variety is deficient.

True, the judging of the different committees like those judging chrysanthemums do not at all times harmonize, but we cannot overcome that. Judges are human and, without questioning their integrity, may involuntarily be influenced by their own fancy and taste. This may especially happen in the points of form and color, but a specified record will enable us to draw our own conclusions, and partly judge for ourselves. A certificate always signifies a certain amount of perfection and cannot be overestimated, but the line drawn as in the past with eighty-five points as good and eighty-four points as bad is too harsh when not wrong.

At the time of our annual meeting and exhibition every exhibitor before the different committees should be requested to make an exhibit with the record attached to it as judged by the committees the month before, for the inspection of all visitors. This would be my idea of judging seedlings; the quality of the blooms every month speaks volumes as to the habit of the variety. Again, there could be made two classes for the second and third year and over, the same as at present. It would probably cost the growers a few more flowers, but they are always watching for any chance to make an exhibit whenever the opportunity is offered, and I suppose they are willing to spend the flowers where it will do the most good.

If a wise, impartial judge can be introduced equally satisfactory to the disseminator and the buyer; when this system of judging brings to our knowledge not only the value of a variety when it is at its best, but what can be expected from it during the most important part of the season, when our society can accomplish this it will control the introduction of new varieties, and if carried out in an impartial way, it will gather around itself the progressive and impartial elements, and reach the highest point of its usefulness. Many will not admit it but it remains nevertheless a potent fact that the interest manifested in new varieties centers in the American Carnation Society

and is its moving spirit; remove it and the society will crumble and decay.

#### Secretary's Report.

MR. PRESIDENT AND MEMBERS OF THE AMERICAN CARNATION SOCIETY:

Your secretary reports having issued the reports of last meeting in due time and sending them to all members who were not in arrears for dues.

There are on the books (February 1) ninety-four members who are paid up. The revenue derived from these will not pay the running expenses of the society, and there is room for considerable missionary work by these ninety-four members.

Every year the mail matter of this society gets heavier. The past year there was not less than three hundred parties outside of the society, who wrote your secretary on matters pertaining to the society, and it remains for the society to say whether or not they will be burdened with postage (which has not been charged up in the past, but which your secretary believes will reach \$10 the coming year) or whether the secretary shall not recognize such letters from parties other than members.

ALBERT M. HERR.

#### Treasurer's Report.

The report of the treasurer, Mr. C. H. Allen, shows receipts to the amount of \$598.93, expenditures \$492.61, balance in bank \$106.32.

#### President's Address.

GENTLEMEN OF THE AMERICAN CARNATION SOCIETY:

We meet to-day in annual convention. Six times since its organization has this society assembled in various cities, drawing together from distant localities men as widely separated in lines of thought and methods of work as are their places of residence. We have studied and planned and toiled to bring our productions to the upper limit of quality, and have carried them to these conventions for comparison with the work of our fellow members.

Each one of us has fallen short of his hopes and some have suffered bitter disappointment, but whether successful or beaten in the contest for honors, we have all returned to our homes with greater knowledge and broader views to strive again through another year for that to which we may all approach constantly nearer, but to which, thank God, we can never attain—perfection.

As we look back over past conventions and the products of our skill then shown, we can note how the apparent perfection of a year ago becomes the mediocrity of to-day. Only then do we begin to know and value what this society has done for every one who is even ever so remotely connected with our branch of horticulture.

So much for the past. What of the future? Shall it show continued success, and an ever widening field? Shall it be doubt, distrust, failure? It rests with you; it depends on your action at this meeting. You have come to the dividing ways; take heed lest you follow the downward path.

The history of all societies similar to ours is the same. Novelty attracts the thoughtless. In the beginning, along with the sober, thinking workers, come the fickle and the shallow. As time passes

the weaklings fall away, the membership decreases, and to the mind of the unthinking, failure is at hand.

I say to you, gentlemen, this is not so. These desertions from the ranks are a source of strength to the society. With the deserters have gone intrigue and dissension. What remains is strength, honesty, energy. Settle the important questions now before you thoughtfully, carefully, slowly if you will, but without fear or favor, and success is yours.

The past few years cover a period of financial disturbance and trouble. The year 1897, while showing to careless observers only increased disturbance and added difficulty, has been a time of liquidation and adjustment. Business has been forced into safer and more conservative channels. We are to-day, for the first time in some years, on a sound basis. We reached the bottom last year, but are now on the up grade, and unless all signs fail are, from this time on, to see continued upward progress.

The recent holiday trade has taught us some valuable lessons. From all parts of the country have come advices of increased demand and better prices for carnations of the higher grades. The supply of inferior flowers is and has been ample; it always will be. But we have shown the buying public the possibility of better things. The demand for them has been made and must now be supplied.

The stemless carnation is a thing of the past, forced out by the larger and longer stemmed flowers of yesterday. To-day the demand is for greater size, better form and color, and larger and stronger stems. The carnation of yesterday will not do for to-day, and we must change our methods to suit the times. Carnations summer grown in the field can not compete in quality with those grown throughout the season under glass, and we may look to see the same change take place in our methods of culture as the chrysanthemum grower has had forced upon him.

The resume of the year's work, usually taken up by your president, has, on this occasion, been placed in better hands. Your secretary will, at a later session, give you a careful review of the new varieties of the year.

Let us get to work.

#### Nomenclature.

MR. PRESIDENT AND GENTLEMEN OF THE AMERICAN CARNATION SOCIETY:

In the list marked "Standard Varieties" I have left out all varieties not supposed to be grown any longer. In revising this list I have been assisted by the following gentlemen: Geo. Payer, H. Weber & Son, Jas. G. Hancock, Peter Fisher, E. H. Michel, John Hart, Jr., Theo. F. Beckert, C. W. Ward, E. G. Gillett, W. X. Rudd, Richard Witterstaetter, Geo. Smith, C. E. Field, W. R. Shelmire, Daniel B. Long, Eugene Dailedouze, Elmer D. Smith, John G. Esler and Wm. Scott.

It will be seen that the list of assistants comprises growers from all sections of the country, and with a revision by a committee appointed at this meeting the standard list should be final. The society has spent considerable money, and your secretary some \$50 of his own money, in trying to straighten out and reduce the list to something like common sense.

The list marked "Varieties of 1896, '97 and '98" is of too recent registration to eliminate any names without the consent of the parties having registered them. So all names registered within the last three years have been intact.





CARNATION MAYOR PINGREE.

President Rudd stated that a matter had been brought to his attention with the request that it be presented before the society. This matter was in regard to the variety Harrison's White, which had been stated to be a sport from Wm. Scott, but was in reality the variety Puritan renamed. It had been suggested that the society investigate the matter through its officers or by a particular committee.

Mr. Hill stated that the society had done nothing with this particular variety which would warrant its passing any opinion upon it. It had not been granted any certificate by the association and he considered that the society would be going outside of its line of action to take the matter up. He was satisfied that the gentleman who had disseminated Harrison's White was under the impression that it was a sport from Wm. Scott,

although nobody else believes that but himself. The speaker was convinced that the variety was nothing more nor less than Puritan. The president then suggested that the matter be referred to the nomenclature committee with instructions to investigate, and if they find the facts are as stated that the name Harrison's White be withdrawn from the list.

Mr. Palmer took exception to that course, stating that he did not consider

the variety to be Puritan. Neither did he believe it to be a sport from Scott. Mr. Ward then simply reiterated the statements regarding this variety, which have already appeared in print, to the effect that the disseminator of the variety had been led into the error from finding this white flower mixed with some plants of Scott. He told of the comparison that had been made by Mr. Wood, the originator of Puritan, last year with Harrison's White and stated that that gentleman had now come to the conclusion that the variety was Puritan.

Mr. Ward himself had grown the variety this season and found it identical in every respect to the Puritan as grown by him some years ago. It differed in some respects from that variety, but he was confident that it was not a sport from Scott. He did not accuse the disseminator of any dishonest intention at all in the matter, but he thought that he had fallen into the error unwittingly.

Mr. Scott facetiously remarked that the comments of Mr. Hill might go this time, but he thought when a similar case came up that it was in the province of this society to look into it, and that when he did sport he would like to sport something good. Mr. Michel stated that he hoped he would not sport into a Puritan.

#### Last Season's Introductions.

BY ALBERT M. HERR LANCASTER PA.

Perhaps the two most notable introductions of the past season are Harrison's White and Flora Hill. The latter has proved to be even more than was claimed for it. The former being sent out as a sport from Scott, raised expectations which it has not been able to meet. Your secretary has had letters demanding that the society take some action on this matter, claiming that the variety was no more a sport from Scott than the writer was a sport from an elephant. If there was evidence of an attempt to defraud, the society would be justified in taking some notice of such letters, but those of us who know Mr. Harrison also know that he honestly thought the variety a sport from Scott, and thinks so to this day. We, as a society, have no evidence to the contrary, for while the variety has been a disappointment in most places, it has done well with a few, and at this date, February 19, is doing fairly well everywhere. There is a possibility that a variety that can sport color can also produce a bud variation that would change the entire habit of the plant, and there is reason to believe that this may be an instance.

Niven seems to be grown more successfully in the east than anywhere else.

Of the season's introductions in scarlet, Morello and John's Scarlet have both given satisfaction to the growers.

In pinks, Mrs. Chas. H. Duhne and C. A. Dana have made many friends, but Victor seems the introduction of the season, as one hears very little of the others. It is a case of a sport that has proven of value.

Grand Bear is recognized as one of the favorites of the season, and like some other beauties, very reliable and not to be depended upon.

Lily Decker is a excellent variety in its class, and one of the best of culture than other of the same class.

Mr. Bradford has improved since being sent out, and promises to be a standard cut.

Mayor Eugene has filled a long felt want for a good and profitable yellow.

Mrs. Alburne promises to replace the breed being larger and easier to do,

and having other points of merit over the older variety.

Taken altogether the season's introductions have been such that the introducers can be congratulated.

Of those being introduced this season—there are certainly plenty of them—and all seem of sufficient merit to try. It would take too much of your time to review all of them, and to have but one man's opinion would not do them justice.

This society should have a report from one of its members as to the health of the stock being sent out and if it will answer to the description given, this report should be a part of the annual meeting.

At the evening session officers for the ensuing year were nominated, and Mr. Kennicott read his valuable paper on carnations from the commission dealer's standpoint, illustrating it very graphically by means of genuine stock in good shape and in bad.

#### The Carnation From the Commission Man's Stand-Point.

BY FLINT KENNICOTT, CHICAGO

Through Mr. Rudd, Mr. Herr has requested me to make a few remarks from the commission man's stand-point upon that most beautiful and useful flower of the genus dianthus, but to the trade more commonly known as carnation pink, and in all commission houses simplified to C. P. I am not in the habit of writing papers and these few remarks will be but a rubaboo or mixture of ideas. Of course, you are all carnation growers but my few remarks will be made from the stand-point of a commission broker of cut flowers.

In my opinion, if you are growing for the trade, you should confine yourself to carnations only, with as few side issues as possible and of the C. P. not too many varieties, say five or six and not over eight varieties at the most, and grow only such as you can do well. Discard all others, unless grown for experiment or pleasure. Your merchant wants a No. 1 "bang up" stock, with large perfect flowers and long, stiff stems, with good foliage. Such he can sell to best advantage. In my opinion straight colors, clear and pure, are best to grow—white, pink in shades, red in shades, and yellow.

There are many good whites, and white C. P.'s are always staple, more so than any other color; so give a good share of space to the white or whites that you can grow best. A good white or two you must have. They should be pure white and good large flowers on long stiff stems. The day of short stemmed carnations is past. The customer wants them long. For design work, he picks them off himself. It is very seldom now that short C. P.'s are asked for and then it is only by some back number who is still in the woods. After white, the best in demand, are the different shades of pink—dark, medium and light

represented respectively by Tidal Wave, Scott and Daybreak, with intermediate shade, but to sell well they must be distinct in color. No mongrels need apply. In red, the very dark magenta shades, such as Old Sport (not the "old sports" who sell chewing gum and are well known characters in Chicago streets, but the old blackish C. P.)

Prince of Morocco and others of the same ilk are not in demand, excepting for entertainments of certain college societies and as colors of football and baseball teams, but of a good red C. P. we are much in need, one the same shade as

Portia, with just as long a stem but stiffer and of the same keeping quality, with twice the size of bloom, and one that is as free a bloomer. Of course, there are Jubilee, Meteor, Morello and many other fine reds but they are so scarce you cannot get them when you want them or sell them at listed prices when you have them, as they must be classed as fancy, with a fancy price, or the grower will be left. Now, what is wanted, is a good, large, dark red, something better than Portia, that can be sold as first-class with good whites and pinks, etc.

Yellow is still a novelty. No merchant can quote it as he does white, pink and red and be sure he can get them. There is no doubt that if a free blooming yellow could be found and produced freely enough so your merchant could depend on it, it would find a ready sale at prices above all other colors, but I have never known the time when I could promise 1000 yellow carnations one day in advance, no, not fourteen days. Now in white, pink and red, I will promise you 100,000 in fourteen days, if price is satisfactory. So I class a yellow C. P. as a novelty until one of you gentlemen will grow one that will bloom as freely as the old Degraw.

As to the variegated carnations, such as Helen Keller, Mrs. Bradt and many others, they are also novelties and though to my taste they are very beautiful, still as your merchant, I will say that commercially they are worthless, except as novelties. They are seldom asked for, and when they do find a market it is through a forced sale, due to chance. Excepting in a house devoted to your own pleasure, I would advise growing very few variegated C. P.'s. Clear colors are what "knock"!

Now, gentlemen, your merchants are not idiots, although a few of them may appear a little "daffy". They do not expect you can grow every flower to perfection, but they do expect you can separate the perfect from the imperfect blooms and bunch them separately and even make a third class, if necessary. Carnations should be tied twenty-five in a bunch. Four bunches will then make 100 and your merchant sells all his goods by the hundred and he trusts to his grower's count. In the Chicago market the growers are all known by number, and a customer soon learns the number of the grower who produces the stock he wants. He naturally buys stock from the lots in which he has found twenty-five perfect flowers to the bunch and will ask for that grower's number next time; so, for your own sake, as well as that of your merchants, be sure there are twenty-five perfect blooms in every bunch.

No matter how scarce flowers are, do not count short. Put in one extra rather than one short. Many growers have yet to learn that six bad ones or even sixteen are not equal to one good one, so never put a "ringer" in your bunch, for the customer who buys 100 first-class carnations of your merchant expects to get 100 and will make no "kick" if there are 101 first-class ones or he will say nothing if there is an extra two or three, but "if for the 100 he gets ninety-two that are perfect and eight that are "ringers", gentlemen, "the fir will fly." An extra one or two should really be included in the bunch to allow for an occasional broken neck.

Put your second-class stock in separate bunches and your merchant will take care of it, but never mix any of your seconds or rubber necks with your firsts, and if you have thirds send them along,

unless you are short on fertilizers. Maybe they would help out on commission and express but never mix them with your first-class stock. One "ringer" will kill the entire bunch.

I want to say a few words regarding the naming of C. P's. It is a bad mistake that some of you make in naming your C. P's after staple roses, such as Meteor, Bridesmaid, etc., and it causes your merchant much confusion. Thus, an order comes for "One Perle, one white carnation, half Meteors, half Maids." Your merchant has to be a mind reader to know whether roses or C. P's are wanted. On two last mentioned I have known more than one mistake to occur. And a carnation "by any other name would smell as sweet," wouldn't it?

Regarding the bunching of C. P's I am going to make a few illustrations. Here is a bunch of twenty-six good C. P's tied as they should be, even heads, with each individual flower showing; also showing every stem of equal length; that it as it should be. This one is not. It is tied all wrong. But, maybe, the grower had a reason; let us cut it open. What! twenty-eight carnations! Generous man! But hold on; see, here are three dead "ringers" and two short stems. His generosity is misplaced. The ringers alone would kill the bunch, even had there been twenty-five good ones, but two are short and do not count. The bunch has only twenty-three carnations in it. Register another "kick" for your tough merchant. No. 1 is the way to do it; No. 2 is the way not to do it.

Now a word as to pickled stock. The experience of years ought to teach every grower that pickled stock does not pay, but at every holiday the mistakes of the previous year are more or less repeated in this respect. It will invariably prove the most profitable to you as well as satisfactory to your merchant and his customers to keep sending your flowers in as fast as they are in proper condition for market. Pickled stock always results in loss to the grower, trouble for your merchant and dissatisfaction to the buyer. I cannot emphasize this fact too strongly. The grower who pickles stock is invariably working directly against his own best interests.

#### Friday's Business.

The convention was called to order at 9 a. m. Prof. Authur's paper on "Moisture, the plant's greatest requirement" was read and called out a very general discussion. A vote of thanks was tendered Prof. Arthur.

The election of officers was next in order and the following gentlemen were elected by acclamation: President, Wm. Nicholson, Framingham, Mass.; vice-president, Wm. P. Craig, Philadelphia; secretary, Albert M. Herr, Lancaster, Pa.; treasurer, Fred Dornier, Jr., Lafayette, Ind.

The committee on protest against proposed plant inspection legislation was named as follows: Wm. Wallace, J. C. Vaughan and E. G. Hill.

Wm. Scott was named as a committee on correspondence with the national flower organization. Messrs. Graham, Vesey and Giesy were appointed as a committee on final resolutions.

The proposition of Secretary Herr that members contribute \$25 each for the good of the society aroused considerable discussion, which developed into great enthusiasm. Mr. Hill offered \$50 and Mr. Ward in the same breath increased his present offering, of which the society has been the recipient for some years, to a like amount. Twenty-five dollar sub-

scriptions came from all parts of the hall and in a few minutes \$350 was subscribed with only a part of the members present. The executive committee was instructed to carry on the work and to endeavor to interest others. It was resolved that all receipts in excess of \$500 per annum be carried to a sinking fund to form the nucleus of a permanent endowment.

The most enthusiastic good feeling prevailed and the society adjourned to meet next year at Philadelphia.

#### The Banquet.

The banquet to the American Carnation Society at the Auditorium hotel is in progress as we go to press, about 125 guests are present and the jolliest kind of a good time is anticipated.

#### Varieties Exhibited.

Fred Dornier & Sons Co. had on exhibition twenty varieties, among them, Uncle John, fine; White Cloud, fine shaped full flower, grand stem; Gold Nugget, fine fringed yellow, full flower, good stem; Mrs. G. M. Bradt, extra fine, as usual; Mary Wood, fine white, slightly penciled pink; Dazzle, fine shaped scarlet; New York, pink, extra good color, fringed flower, good stem; Mrs. James Dean, pleasing shade of pink, seems a little weak in stem; John Young has the appearance of a fine commercial white, fringed flower, good stem; Storm Queen, white, not quite so full as White Cloud, but still a fine thing; G. H. Crane, scarlet seedling, large full flower of lively color, calyx fine, a plant exhibited shows it to be of fine growth; Bon Ton, scarlet, a little small, but of good color and fine stem.

Mr. C. W. Ward's exhibits are staged jointly with the above making a clean, well-grown lot.

E. G. Hill & Co., Richmond, Ind., showed a grand vase of Jubilee, fine large flower and good stem; also vase of 100 Flora Hill in good form; Painted Lady, fine deep pink, shading lighter on the edges, seems a little weak in stem, but otherwise a fine thing, white; Psyche, white heavily penciled with red, have seen this in better shape than shown here; vase of fifty blooms of Armazindy, fine shape, with extra good stems; America, red seedling, fine shaped flower, even color, good stem; Scarlet Queen, seedling, fine large fringed flower, extra fine as regards color and form, good stem; Arbutus, seedling, Daybreak color, but a little deeper, fine flower with good stem; Prima Donna, pink, similar in color to Triumph, fine shaped flower with good stem.

From Wm. Swayne, Kennett Square, Pa., Empress, rich crimson, making one of the finest exhibits, stem fully thirty inches long, plant shown indicates extra strong growth, though a dark one the color is still lively, strength of stem and calyx good.

Stollery Bros. had on exhibition a fine vase of Argyle, grand in every respect, the color showing well in artificial light.

Maud Adams from Frank Niquet, Patechoque, N. Y., looks to be a good commercial flower, of a deep pink color, fine fringed flower of good form, with good stem, holding the flower erect.

From W. P. Craig, Philadelphia, vase of 100 Flora Hill in good shape; vase of 100 Lily Dean, a finely penciled flower, but a little weak in stem; a fine vase of fifty Jubilee; a fine vase of Victor, together with some plants showing growth; it has the appearance of being very free, as the growth and everything is good.

Victor Bros., Chicago, showed a fine vase of 100 Armazindy with stem fully thirty inches.

John Burton, Philadelphia, a fine vase of Alba Superba, flower a little small, but otherwise good.

Weber & Sons, Oakland, Md., a fine vase of 100 Mrs. McBurney, the same of Triumph and Mrs. G. M. Bradt, Flora Hill Buttercup, Daybreak, Goldfinch, Wm. Scott, Storm King, Hector, and fine vase of seedlings. These exhibitors showed a fine vase of Mrs. Robert Garrett rose which certainly seems to be a great acquisition, color, shape, form, stem and foliage being extra fine.

John Breitmeyer & Sons a fine vase of Mayor Pingree, a fine vase of Crimson; also good vase of Cerise Queen, a fine pink.

Messrs. George & Allen put up a nice stand of cut flowers, including Meteor roses, valley, tulips and Dutch hyacinths.

Mr. Peterson staged a nice vase of Princess of Wales violets.

Mrs. Thos. Lawson was staged in fine shape by Peter Fisher, Ellis, Mass., a fine large flower of good color and grand stem.

Chas. S. Baker, Utica, N. Y., staged Oneida, pink, fine color, but a little weak in stem; Red Jacket, scarlet, fine color, not so large as some reds, but otherwise good; Uncle Sam, a densely striped red and white; also two promising seedlings; Pluto, dark red, and Goliath, pink.

R. Witterstaetter, Sedamsville, Cincinnati, Ohio, staged a grand lot, including his peerless white Evelina, which was fine in every way.

Mr. Murphy, Cincinnati, Ohio, staged Portia, W. Scott, Daybreak and Mrs. Geo. M. Bradt in good shape.

Dan'l B. Long, Buffalo, N. Y., was on hand with a fine lot of Genesee, white, both flowers and plants being in good shape, and look to be very free, and a good market variety, but the flower is a little small compared with Flora Hill.

Mr. James Hartshorne, gardener to H. N. Higinbotham, Joliet, Ill., staged a fine vase of Tidal Wave with fine stems, also a grand vase of Jubilee.

G. A. Kuhl, Pekin, Ill., showed some elegant Brides, Bridesmaid and Belle Siebrecht roses.

Bassett & Washburn, Hinsdale, Ill., staged a fine lot of roses, carnations and mignonette, not for competition; they were all elegant stock and well done.

John H. Sievers, San Francisco, Cal., had a very interesting exhibit of seedling carnation, some of them being grand specimens, and looked in good shape after their long journey.

South Park Floral Co., New Castle, Ind., exhibited fine vases of Bride and Bridesmaid roses, also vases of Jubilee, Mrs. Geo. Bradt, Armazindy, Alaska and Albertini, all in fine shape.

Barnd Sisters & Co., Findley, O., staged a vase of darker crimson named Olive Snyder.

John Murehie, Sharon, Pa., had a vase of dark pink named Uncle Walter, fine color and stem.

J. P. Turner, Galewood, Ill., a vase of Van Leevan, flower a little small, but with fine stem; also vase of Daybreak.

Geo. Hancock & Son, Grand Haven, Mich., plant and blooms of their seedling Firefly, which they term a business carnation, which certainly looks to be very free; also a vase of lemon yellow, named Gold Coin.

W. W. Coles, Kokomo, Ind., showed a vase of elegant Kaiserin roses, and an American Beauty with stems about 7 ft.

From W. N. Rudd, Mount Greenwood, Ill., vase of 100 Pingree, fifty ditto, twelve ditto, 100 Mrs. McBurney, twenty-five ditto; two vases of 100 Flora Hill, also one of twenty-five; vase of 100 Jubilee, fifty Jubilee, and some others.

C. W. JOHNSON.



WM. P. CRAIG

### An Interview with William P. Craig.

William P. Craig has been showing us the newer carnations—unusually well done—at our flower shows and club meetings recently, and although but a youngster compared to most of the successful growers, he certainly does credit to his excellent training at Mr. May's and the old homestead, and gives promise of taking a leading place in the rising generation.

With the idea that Mr. Craig could tell us something of the newer carnations, the writer jumped on a car yesterday and rode out to Market and Sixty-first streets in the hope of being able to pump an interesting story for the *AMERICAN FLORIST* out of the youthful W. P.

Mr. Craig was busy opening the morning mail when I greeted him. I could see that there were some good fat orders in the bunch of letters before him, so I felt sure he would be in excellent humor, and in just the trim to be amiable and chatty in showing me around. I believe the New York reporter's style is to ask all sorts of questions and if the victim answers not, supply the answer. Nansen was asked what he ate, how much, and how often, and a hundred other such questions, until he stood aghast. Acting on the precedent of such unimpeachable authority I promptly began my labors by asking what those orders consisted of that were lying on the desk. I do not have to furnish the answer, here it is:

"None of your business, my boy, but seeing that you're a privileged character, I don't mind telling you that they're mostly for young stock of the newer carnations of which I am making a specialty.

"What's your best seller?"

Well so far Flora Hill leads the procession but Victor, Mayor, Pingree, and Lily Dean are also prime favorites, and I will not have nearly enough of either at the den and I pop up as it is at present."

"Is Flora Hill better than John Burton's Alba Superba?" This was a trap. Being on Feb. 26 I thought may be he'd get caught sudden!

"Look here, George, what are you up to? Want to get a good trade?"

"I assure that I didn't, I've consented to answer all questions if I asked them respectfully.

"What makes you think so much of Flora Hill?"

"Well, in the first place, it is very healthy, vigorous and free; then it has good size, good stem, and in fact it is all that Hill claimed for it.

"I see you have a house of Victor? Any fault to find with him?"

"No siree! That's absolutely the finest pink carnation to date. Do you see that center bench there, where the men have just started to take off the crop? There are 1000 plants on that bench and I am cutting 100 a day and have been since the middle of December and I took at least 1000 off before that; it's certainly a money maker! The crop keeps coming right along. Ves, Scott has served us well, but his day is past when you can have a pink like Victor on the carpet."

"What do you consider the best red to date?"

"I should say Jubilee, by all means. It has stem, size, form and color, and sizes up to the exacting standard of the day better than any other I know of."

"How about Mayor Pingree? I see you have a center bench of him in fine form?"

"Pingree is the best yellow—an exceedingly lively shade of yellow, especially in the center, and the red pencilings rather enhance its beauty than otherwise. I can cut stems twenty-eight to thirty-two inches in length good and stiff. It is also a free bloomer, the flowers are large and averaging three and one-fourth inches in diameter with me.

"What's your favorite in the fancies?"

"Ah, now you just come round to this far house and I'll show you some Lily Dean that will make you quiver! Ain't they fine? Did you ever see anything so charming? shape exquisite, color more exquisite still! I wish I'd had it on the center bench it needs more head-room (three and one-half feet head-room—no less) than what it gets here. It also wants to be grown cool, 50° is about right for it. Mrs. Bradt requires the same treatment, and is a good one to grow in the same house. Mrs. Bradt is a good heavy flower, very showy, but she will not be in the race with Lily Dean as a fancy—the pencilings are too heavy."

"I see some fine McGowans up at that back bench. I suppose she's still a money-maker?"

"No; after careful thought I'm afraid we must say good-bye to Lizzie, too, as

well as Scott; she's not in it with Flora Hill!"

"Is Flora Hill better than Burton's Alba Superba?"

"There you go again! Why can't you stay in my bailiwick where I'm on sure ground! I've seen Alba Superba at Mr. Burton's, and it's certainly magnificent, and where a long stiff stem is required it is indispensable—in fact nothing can touch it. It has fair size, too, and I think most everybody will be able to grow it. The color is very pure, and the form and texture unique. I think it a grand good thing, indeed."

"Are there any other new ones you've tried?"

"Not many. Mrs. McBurney with me is no better than Daybreak. Emma Woche is a very fine pink, very pretty, but not full enough. Maud Dean very fragrant. A fine thing, but too late."

"Hello! a house of carnations and no flowers! What's it mean?"

"Oh, that's a house of Flora Hill exclusively for cuttings. I have not allowed a bud to expand except at first to make sure of the purity of the stock. The buds are carefully pinched every day. It pays. I've had great success in striking cuttings. In one batch of 20,000 I did not have 1% miss. Of course the mica rock I use for striking may share the glory of that."

"What kind of rock's that?"

"Why, its rotten rock found near here, composed of mica, mostly. It's grand stuff for striking cuttings. American Beauty and other difficult subjects do splendidly in it. I have shipped several carloads of it to other growers, Mr. May and Mr. Burton among others. It's too expensive, however, for a distance; the freight is too high. But any one can get it who will dig for it in their own neighborhood. The mica strata is found below the gravel."

"What further passed at this meeting deponent sayeth not. I guess I'll follow Sam Weller's advice and make this letter short, so you'll wish there was more. Some time I may go out and see this beauty of Mr. Burton's that they're all talking about. If you never hear of this reporter thereafter, you may conclude that he met the fate of Abe Cminus—the rope broke and I was driven—well, to breakfast, and now, by gum, I want a pension."

G. C. WATSON.



WM. P. CRAIG'S HOUSE OF VICTOR CARNATIONS.



## THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN  
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wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-  
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE illustrations of carnation flowers  
in this issue are from the actual speci-  
mens exhibited at the national conven-  
tion of growers held in this city within  
the past two days.

### Carnation Bon Ton.

We have received a box of blooms of  
this excellent variety from F. A. Blake, of  
Rochdale, Mass. The flowers are of good  
size and substance, very full and deeply  
fringed. The color is a good bright scarlet.  
It is evident the flowers will travel well,  
and they are borne on stems of the first  
quality.

### New York.

FLORISTS' CLUB HAS A ROUSING MEETING.—  
A GOOD EXHIBITION—CHANGE IN EXHIBI-  
TION RULES.—A LEGISLATIVE COMMITTEE  
APPOINTED.—ENTERTAINING LECTURE  
WITH STEREOPTICON VIEWS BY MESSRS.  
FARQUHAR.—BULB-GROWING IN HOLLAND  
AND PLANT LIFE IN JAMAICA.—VISITORS  
FROM ABROAD.

The meeting of the Florists' Club on  
Monday evening was something of a re-  
cord breaker, there being seventy-seven  
members present, twelve new names  
added to the roll and fourteen more pro-  
posed for election at the next meeting.  
The exhibition comprised a fine collection  
of carnations from C. W. Ward, group of  
azaleas from A. Schultheis, collection of  
orchids from Siebrecht & Son, and W. A.  
Manda, section of greenhouse from Thos.  
W. Weathered's Son, and orchid basket  
from W. A. Manda. The committee made  
a report on all these and supplemented  
same with a new scale of points which it  
recommended for judging these monthly  
exhibits. The new scale, which provides  
that any exhibit gaining eighty-five or  
more points shall have a certificate of  
merit and the exhibitor with the most  
certificates at the end of the year shall  
have the gold medal, was unanimously  
adopted. The committee reported hav-  
ing visited the houses where the new car-  
nation Maud Adams is growing, which  
they honored with a certificate and a very  
high endorsement.

Patrick O'Mara called attention to the  
efforts now being made to pass a law in  
New Jersey, also in New York and in Con-  
gress, providing for a rigid inspection of  
all trees and plants coming from outside  
territory and exclusion of all stock infested  
with insects, and urged that the pests at  
which the law is aimed are exclusively  
found on nursery stock, never on so-called  
florists' stock. He explained the annoy-  
ance and loss that would come to florists  
if the bill in its present shape should  
become a law and asked for a committee  
with power to appear before the various  
legislative bodies and urge that florists'  
stock be exempted. Messrs. O'Mara,  
May and C. H. Allen were appointed  
accordingly and will assume their duties  
at once.

The promised entertainment of the even-  
ing was then in order, a stereopticon  
exhibition by Messrs. John and James  
Farquhar, of Boston. No more delight-  
ful evening has ever been spent by the  
club. Scenes in the bulb-growing districts  
of Holland, views in many foreign horti-  
cultural establishments and entrancing  
pictures of the tropical scenery of Jamaica  
were thrown rapidly in succession on the  
screen and applause was frequent. The  
greatest surprise to all was the wonder-  
ful vegetation of Jamaica. The great  
trees with orchids and ferns growing  
over their branches, the rocky chasms  
hung with beautiful ferns and tropical  
plants innumerable, the stately palms,  
the banana groves, the strange towns  
and market places were all shown and  
entertainingly described. At the close of  
the lecture, which lasted for an hour and  
a half, the Messrs. Farquhar were the  
recipients of a vote of thanks, an invita-  
tion to the club dinner and no end of  
applause.

Business is sailing along serenely, with  
fair demand, plenty of stock of all kinds  
and low prices on everything. Lily of the  
valley, tulips, daffodils and violets are  
accumulating faster than they can be  
unloaded in the wholesale marts. Har-  
risii lilies are also overplenty and callas  
are abundant. Smilax and adiantums  
are shortening up in quality and quan-  
tity, both. Unusually fine Vervaneana  
azaleas are displayed in the retailer's  
windows, and among the most attractive  
things offered are pots of violets in bloom.

Visitors in town: G. Krouwell, of Speel-  
man & Sons, Sassenheim; Jac. Wezelen-  
burg, Sassenheim, Holland; Mr. Kaptjen,  
representing G. Van Waveren & Kruyff  
and P. Vos, of the Holland Bulb Co.

### Boston.

BUSINESS SATISFACTORY.—IGNORANT PRE-  
JUDICE AGAINST POLICY OF PARK DEPART-  
MENT.—EXHIBITS AT HORTICULTURAL  
HALL.—RECENT FUNERALS CAUSE BIG  
DEMAND FOR FLOWERS.—GURNEY HEATER  
MFG. CO.'S REMOVAL.—LOCAL LINES.

A more even trade is reported from all  
local points. Receipts of roses and car-  
nations seem about right for the needs of  
the market and no fluctuations in price,  
of any account have been experienced this  
week. This may reasonably be expected  
to continue till middle of next week at  
least, when Lent will come in and a lull  
may be experienced. Bulbous stock and  
violets are in oversupply here, as in other  
eastern markets, prices realized being low  
and the surplus disposed of with difficulty.

The self-constituted censors of Superin-  
tendent Pettigrew and the park board  
continue to vent their abuse through the  
open columns of the daily press, and the  
crusade against the tree-cutting goes on  
vigorously. The less a writer knows  
about the subject, the more frantic he  
becomes, apparently. The necessary  
thinning out of young trees and shrubs as  
they grow is a work only to be entrusted  
to a man of long experience, foresight and  
a thorough knowledge of their require-  
ments. Here we have a superintendent  
possessing all these attainments, fully  
supported by a park board which is in  
close touch with our most eminent arbori-  
culturist, a man who has devoted a life-  
time to the science of forestry, but this  
counts for nothing with these critics and  
disturbers who, neither asking nor car-  
ing, apparently, to know the reason for  
the acts they condemn, rage at the thin-  
ning out of overcrowded plantations, and  
yet often display the insincerity of their  
professions by their indifference to the

usefulness, or ignorance of the proper  
arrangement and care of trees and shrubs,  
as shown in the barren or unkempt sur-  
roundings of their own homes. One of  
this latter type was overheard recently  
to boast that the Massachusetts Horti-  
cultural Society was now to be made use  
of to help put a stop to this "vandalism"  
as he termed it. "We shall see what we  
shall see." It is gratifying to know,  
however, that the unreasoning clamor is  
likely to prove fruitless and to feel assured  
that in the course of time the wise policy  
of the present park management will be  
vindicated.

At Horticultural hall on February 12  
J. E. Rothwell showed a number or rare  
and handsome cypripediums. A bloom  
of Cattleya Trianae, Emily Roebling  
exhibited by H. T. Clinkaberry was much  
admired for its rich coloring and fine  
form and received honorable mention.  
James Comley contributed a collection of  
camellia blooms.

The funeral of State Senator Hayes on  
Thursday last was the occasion of a pho-  
nominal demand for flowers and follow-  
ing so closely as it did on the funerals of  
the unfortunate firemen who lost their  
lives in a burning building, it helped out  
the volume of the week's business for the  
city florists very materially. Scanning  
the list of floral emblems it appears that  
the standing wreath, in various styles, is  
one of the most popular designs at pres-  
ent.

The Gurney Heater Manufacturing Co.  
whose boilers have become such favorites  
for greenhouse purposes within the past  
few years, will move from their present  
address on March 1 to 74 Franklin  
street, corner of Arch street, a more cen-  
tral and convenient location.

George Cartwright is still bringing in  
chrysanthemums and says he could easily  
keep it up the entire season. Minnie  
Wanamaker and Maud Dean are the  
varieties he is cutting from.

Welch Bros. have had on exhibition at  
the City Hall Flower Market, a vase of  
Genesee carnation from D. B. Long.  
Not only is it a grand white bloom but  
its keeping qualities seem really remark-  
able.

Referring to the growing impression  
that the Harrisii disease is caused by  
insects infesting the bulb, Mr. Edgar  
suggests the experiment of packing the  
bulbs in tobacco dust.

C. Thompson Adams of West Medway  
has gone into insolvency.

Visiting Boston: H. S. DeForest, re-  
presenting Hitchings & Co., New York.

Henry Waterman, Jr., 488 Boylston  
street, has made an assignment to D. W.  
Murray.

NEWPORT, R. I.—The February 9 meet-  
ing of the Newport Horticultural Society  
was a very large and enthusiastic one,  
and it was decided to hold a chrysanthe-  
mum exhibition next fall at Masonic Hall.  
Schedules will soon be ready.

HOLYOKE, MASS.—The annual meeting  
of the Holyoke Horticultural Society was  
held on the evening of February 5. Donald  
McGregor read a paper on exclaimens.  
Election of officers will take place at the  
March meeting.

WAKEFIELD, MASS.—Owing to the small  
receipts at the fair last fall, the Wakefield  
Horticultural and Agricultural Society  
is unable to pay the prizes awarded at  
the exhibition.

NEW LONDON, CONN.—The florist estab-  
lishment of J. L. Fitch took fire on the  
morning of February 5 and most of the  
plants and seeds were destroyed.

Cut Flower Price Lists Received.

Kennicott Bros. Company, Chicago; W. A. McFadden, Cincinnati; C. A. Kuehn, St. Louis; Holton & Hunkel Co., Milwaukee.

POUGHKEEPSIE, N. Y.—At the meeting of the Dutchess County Horticultural Society on February 2, Mr. W. G. Gomer-sall read an interesting paper entitled "Helps and Hints for the Amateur."

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1918 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By a first-class rose grower; 15 years experience. Good references. Address D. W., care American Florist.

SITUATION WANTED—By a young man 22 years of age; 7 years experience. Good references. Address O. M., care American Florist.

SITUATION WANTED—By a competent grower in private or commercial place. Best of references. JOHNSON, 15 W. Huron St., Chicago.

SITUATION WANTED—By a competent store man late with Friedman; reference given by Chicago wholesale florists. R. A., care Am. Florist.

SITUATION WANTED—By an A No. 1 manager of wholesale or retail store; twelve years' experience in prominent cities. Correspondence solicited. G., care American Florist.

SITUATION WANTED—By rose grower as foreman; expert in all leading varieties of cut roses, 'mums, carnations, etc.; plants, 'mums, palms, etc. O. S., care American Florist.

SITUATION WANTED—By a general out-door grower; good decorator. Recommendations furnished, German American; 31 years old. Address V. G., care American Florist.

SITUATION WANTED—By experienced gardener and florist (scotch) to take full charge of private place. Best of references. W. S., care American Florist.

SITUATION WANTED—By young man age 21, three years experience in roses and carnations. Best of references. Address W. W., Box 163 Newtown, Pa.

SITUATION WANTED—As foreman by a rose grower, at place where extra fine American Beauty and Tea roses are wanted. Address P. H. M., care American Florist.

SITUATION WANTED—By an experienced gardener and florist to take charge of private or commercial place, age 2 married. Best of references. CHICAGO, care American Florist.

SITUATION WANTED—As assistant florist single, age 23 years. Experience, sober and reliable. References. Address L. H. A., 15 Bond St., Carlisle, Pa.

SITUATION WANTED—By young man to learn the florist trade, sober and reliable; state terms. Address W. C. GILGOLLY, Box 92 Markham P. O., Ontario, Canada.

SITUATION WANTED—By experienced gardener and florist to take charge of private place; 11 years experience, age 27 married, no family. Address J. H. R., care American Florist.

SITUATION WANTED—By gardener and florist with large experience in Europe and America (mild temperate private place preferred). Address F. H. S., Homestead, Pa.

SITUATION WANTED—A competent workman to work as an assistant in a reliable seed house, can speak Dutch, German or English; correspondence solicited. H., care American Florist.

SITUATION WANTED—As foreman in first-class establishment, speciality roses, 'mums, carnations, etc.; 10 years experience, well up in other lines, see if the professional. C. O., care Am. Florist.

SITUATION WANTED—By a good round grower of cut roses at 100 ft. in a 100 ft. room; high school graduate, etc.; 10 years experience; Big similar positions age 27 married. E. J., care Am. Florist and A., references. W. W., care American Florist.

SITUATION WANTED—As foreman or assistant to grower, age 27, married, no family. Best of references. Have a large stock of cut roses, carnations for the past two years. A. H. B., care American Florist.

SITUATION WANTED—By practical florist of 11 years experience, a well established flower grower, roses, carnations, etc.; competent to take charge, would work in a private or public place. Address H. C. C., care American Florist.

SITUATION WANTED—By single man, age 25, as second man or to take charge of small place; good grower of cut flowers and bedding plants, steady and reliable; disengaged March 1st. Address R. L., care American Florist, Chicago.

SITUATION WANTED—As foreman by practical florist and grower; speciality No. 1 roses, carnations, 'mums, violets, general stock, etc.; now disengaged; age 28. Best references. Address W. H., care 104 E. Main St., Alliance, O.

SITUATION WANTED—By practical florist and plantsman of experience and executive ability in all the requisites of commercial places; general propagation, inside and outside operation. For more particulars address F. T., care Am. Florist.

SITUATION WANTED—As foreman with some 50 trained party by a practical grower of roses, carnations, violets, 'mums, palms, ferns and general stock, forcing of bulbs; a life experience; references O. K. Address FOREMAN, care American Florist.

SITUATION WANTED—By a first-class cut flower grower with 15 years' experience, specialist in roses, married, age 32. Nothing but first-class place wanted; state wages. Address CUT FLOWER GROWER, care American Florist.

SITUATION WANTED—As manager of park or private place; young German-American desires engagement; thoroughly experienced in all branches. Can furnish best of references; married, family of two. Address R. S. L., care American Florist.

SITUATION WANTED—A gardener experienced in propagating, culture of palms and ferns foliage plants, roses, carnations, etc.; also in landscape gardening, botany and designing, would like a situation as foreman in a florist's establishment, park or college. Address C. H. MARXEN, 76 Jefferson St., Battle Creek, Mich.

SITUATION WANTED—As foreman in cut flower establishment, mostly roses and carnations; must be up to date in conveniences; by all-round man, single, American, nine years' experience; don't use tobacco or drink; west preferred; good wages expected. References ROSES, 2540 Cottage Grove Ave., Des Moines, Ia.

SITUATION WANTED—As foreman or manager in large commercial place by a first-class grower of roses, carnations, 'mums and general stock; life experience, married, age 36; has been foreman in large establishments for the past ten years; only reliable parties who wish a first-class man need answer; best of references. Address ROSE GROWER, care American Florist.

SITUATION WANTED—As foreman in good florist's establishment; first-class rose grower, also palms, ferns, carnations, 'mums, violets and general stock; or take charge of a gentleman's good private place; 20 years' experience in England and America, strictly temperate; good wages expected; married; disengaged about March 1st. Good references. Address GEORGE NOLTON, 164 Center St., Bridgeport, Conn.

WANTED—The address of Carl Jorgensen, Dane, Amager. Address L. JENSEN, South Butte, Mont.

WANTED—Catalogues and price lists to Merrill, Wis., not to Sparta, Wis., as before. NICK GRIEVELING, Merrill, Wis.

WANTED—Young man to take charge of florist business and take interest in business. Address NEW YORK, care American Florist.

WANTED—Catalogues of hardy roses, hardy herbaceous plants, seeds, trees, shrubs and plants. T. B. STROFF, New Philadelphia, O.

WANTED—Man to fire four boilers steam and hot water. Apply with references etc. stating salary expected. FOEHLMANN BROS., Morton Grove, Ill.

WANTED—For general greenhouse work, an active and reliable young man; wages \$25 per month; willing to increase wages if suited. Address Box 133, Danville, Ky.

WANTED—Reliable man for roses and general floral work; good pay for good work. Address J. T. WILLIAMSON, Prop. La Roche Gardens, P. O. Box 9, Memphis, Tenn.

WANTED—A second-hand hot water heater; also glass or 5/8 in. pipe. Parties having such please correspond with M. L. BELCHER, Lock Box 41, So. Braintree, Mass.

WANTED—Assistant in rose houses under foreman. Apply with references, etc., stating ability and salary expected. Address FOEHLMANN BROS., Morton Grove, Ill.

WANTED—AT ONCE—Young man with general knowledge of nursery stock as retail salesman, send references and state wages expected to STOKY FRUITS STORES, Villa Nova, Ind. Co., Pa.

WANTED—Partner in Chicago, with \$500 cash, to take half interest in new established, paying florist and greenhouse business, experienced man preferred. Address M. N., care American Florist.

WANTED—Address of nurseryman (southern or central states or California) carrying large stock of herbaceous species, low prices. Catalogues or information requested. W. N. HALDIN, 5 Tyler St., Boston, Mass.

WANTED—A good water, middle-aged man, either single or married, to grow 'mums principally; must come well recommended. A steady place for the right person. Address S. A. Z. NEIDER, 72 Fourth Ave., Louisville, Ky.

WANTED—Foreman on commercial place, California; must be experienced in handling men; with unquestionable knowledge of propagating and growing, both inside and out; competent to take charge. Good habits and best of references. Address CARNATION, care American Florist.

WANTED—Young man thoroughly experienced in the best class of retail florist business; must be first-class in window, table and wedding decorations, also design work. Apply with references, ability, etc., stating wages expected. J. H. DUNLOP, 445 Yonge St., Toronto, Can.

WANTED—A competent man for cut flower department and making up floral designs and bouquet work; also one that understands decorating and general greenhouse work. Apply CHARLESTON GREENHOUSES, 300 Meeting St., Charleston, S. C.

FOR SALE—One Alaska refrigerator in first-class condition. JOHN H. ORTH & Co., McKeesport, Pa.

FOR SALE—Two greenhouses heated with hot water; good stock of plants; dwelling house attached. E. GRAVES, Pittsfield, Ill.

FOR SALE—Greenhouse plant of 5,000 feet of glass in Jamestown, N. D.; price \$1,500; 1/3 cash, balance may be paid in cut flowers. Address W. W. SEERINS, 921 E. 3rd St., Duluth, Minn.

FOR RENT—Seven greenhouses, stocked; dwelling and hot steam heat; convenient for Baltimore wholesale market, and fair local trade. Address MARYLAND, care American Florist.

FOR RENT—Greenhouse, 6,000 feet of glass on Main street; street cars pass the door; store and dwelling house connected with same place. \$35 per month. P. N. SOETGA, 1632 Cedar Ave., Cleveland, O.

FOR SALE.

1000 6, 7 and 8-inch cello lilies in best possible condition, all 1 to 2 buds, \$30 to \$50 per 100. Will take palms, ferns or cactus in trade.

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'Mums stock plants, 5c. Will trade for Cal. Violets, Begonias, Carnations, Roses. Cuttings rooted to order of Ivy, dowering and foliage Geraniums, Carnations, Sweet Alyssum, both kinds, Heliotrope, Fuchsia, Stelia, 'Mums, German Ivy, etc.

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A rare opportunity: Seven greenhouses near Chicago for sale cheap. Owner has other interests requiring all his attention. A reliable man can have easy terms. For further particulars address L. D., care American Florist.

TO EXCHANGE.

Canna 'Chas. Henderson, dry roots, for Dahlia or Madelon Vine tubers, shrubs or Climbing Roses; or will sell for cash at 25 cts. per clump (large).

W. P. RANSON, Junction City, Kansas.

FOR SALE

or rent with privilege of buying—established greenhouse property consisting of four houses about 100x25 feet each; boiler house and pump room; 12-room modern dwelling, two acres land; 11 miles from Philadelphia, near R. R. station, steam heat; splendid chance for right party.

JOS. T. SULLIVAN, Moorestown, N. J.

PIPE WANTED.

Second-hand fittings or Weathered cast 4-inch pipe, 2,000 feet (or any part thereof). Give CASH price I. o. b.

J. C., Station A, 79 Pine St., New Haven, Conn.

SITUATION WANTED.

As assistant; experienced in hot and cold fruit houses; also growing of gardenias, roses, carnations, 'mums and general stock, private or commercial; age 35; industrious and steady; good references. Address

JADDOO, care American Florist, Eastern Office, 67 Bromfield St., Boston.

FOR SALE.

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health

For particulars write ELLIS & POLLWORTH, Milwaukee, Wis.

**The Skirm Bill.**

Messrs. Patrick O'Mara, representing Peter Henderson & Co., the New York Florists' Club and the New York Market Growers' Association; John N. May and Chas. H. Allen, representing the New York Florists' Club; Henry C. Steinhoff, representing the New York Market Growers' Association, and Wm. F. Dreer, of Henry A. Dreer, Incorporated, were given a hearing on Tuesday, the 15th inst., before the senate committee in Trenton, N. J., in reference to the Skirm Bill No. 66. Prof. Jno. B. Smith, of the State Experiment Station, and a delegation of nurserymen also attended. The florists and the nurserymen discussed the bill informally before submitting argument to the committee on agriculture and forestry. The result of the discussion was that an amendment offered by Mr. O'Mara was accepted as being satisfactory to the nurserymen and to Prof. Smith. The amendment is as follows: "Florists' plants, flowers, cuttings, scions and buds grown under glass and commonly known as florists' stock are exempt from the provisions of this act."

During the discussion it transpired that there is a likelihood of similar measures being introduced in the different states in the country, and therefore it behooves the florists in the different states to take the matter up with their state legislatures. The New York Florists' Club has already appointed a legislative committee to look after the matter in New York state. The vice-presidents of the S. A. F. in the various states should look after this matter and focus the opposition of the florists in their state against legislation which includes florists' plants in provisions which are really aimed at nursery stock. Every one agrees that florists' plants enjoy immunity from the diseases aimed at in these various laws, and it would be absurd to have laws passed including them. The house committee of congress adopted a similar amendment to the one just accepted by the committee in Trenton.

**Northampton, Mass.**

Since my last report trade has shown a decided improvement, and with the exception of a few stormy days has been very steady. Roses have sold well, but carnations are yet in the lead and were never better than at present; violets also sell well, and but very few go to waste. Bulbous stuff is coming in quite freely, and finds a ready sale at good prices; if

we had a few more saints like good St. Valentine we would not need to wonder if it would be advisable to start for the Klondike, for everything was sold out clean on the 14th, and roses and violets were in short supply. Many more could have been disposed of.

A visit to the Botanic Garden found everything in apple pie order, as usual, and Mr. Canning as genial as ever. Mr. H. W. Fields' houses are also looking well. G. W. THORSILY.

**Wholesale Flower Markets**

CINCINNATI, Feb. 17.

Roses, Beauty select	30.00@40.00
" " medium	15.00@25.00
" Brides	5.00@7.00
" Bridesmaids	5.00@7.00
" Meteors	6.00@8.00
" Perles	4.00@5.00
Carnations	1.50@2.00
Valley fancy	3.00@4.00
Romans	2.00@3.00
Narcissus	4.00
Daffodils	4.00
Violets	.75@1.00
Harrissl	12.50
Callas	8.00@10.00
Tulips	3.00@4.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, Feb. 17.

Roses, Beauties	5.00@50.00
" Meteors	4.00@10.00
" Brides, Bridesmaids	4.00@10.00
" Perles	3.00@5.00
" Wootton	3.00@5.00
" La France	4.00@10.00
" Kaiserline	4.00@10.00
" Carnot	4.00@10.00
Carnations	2.00@4.00
Violets, California	.75@1.25
Valley single	.15@.25
Harrissl	3.00@4.00
Callas	10.00@12.50
Tulips	8.00@12.50
Narcissus, Romans	3.00@5.00
Smilax	2.00@3.00
Adiantum	12.50@15.00

BUFFALO, Feb. 17.

Roses, Beauties	20.00@75.00
" Brides, Bridesmaids, Meteors	5.00@10.00
" Perles	4.00@6.00
" Niphotos	4.00@6.00
" Kaiserin, Mermets	6.00@12.00
Carnations extra	2.50@3.50
Valley ordinary	1.50@2.50
Violets	3.00@4.00
Romans	1.00@2.00
Harrissl	2.00@4.00
Smilax	15.00@20.00
Adiantum	12.50@15.00
Asparagus	1.25
Asparagus	50.00@75.00

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**Wholesale Flower Markets**  
 CHICAGO, Feb. 18.  
 Roses, Beauties.....per doz, 2.00@6.00  
 .. Brides..... 4.00@ 8.00  
 .. Meteors, Bridesmaid, Kaiserin..... 4.00@ 8.00  
 .. Perle, Gontiers..... 3.00@ 6.00  
 .. La France, Testout..... 5.00@10.00  
 Carnations, common..... 1.00@ 3.00  
 .. fancy..... 2.00@ 6.00  
 Violets..... .50@ 1.00  
 Narcissus, Romans..... 2.00@ 4.00  
 Callas..... 10.00@12.00  
 Barnell..... 12.00@15.00  
 Valley..... 2.00@ 3.00  
 Tulips..... 1.00@ 5.00  
 Von Slon..... 2.00@ 3.00  
 Hyacinths..... 4.00@10.00  
 Adiantum..... 1.00  
 Smilax..... 10.00@12.00  
 Asparagus..... 50.00@75.00

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 FANCY DAGGER  
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## Wholesale Flower Markets

NEW YORK, Feb. 16	
Roses, Beauty.....	10 00@50.00
" Br des. Bridesmaid.....	3 00@10 00
" Testout, Carnot.....	4 00@12.00
" Morgan, Meteor.....	3.00@10.00
Carnations.....	1.00@ 2.00
" fancy.....	2 50@ 4.00
Valley.....	1.00@ 4.00
Mignonette.....	2.00@ 6.10
Violets.....	4.00@ .75
Harrisli.....	5.00@ 8.00
Tulips.....	1.50@ 3.00
Smilax.....	10 00@12.00
Cattleyas.....	5 00@35 00
Daffodils, Jonquils.....	1.00@ 3 00
BOSTON, Feb. 16.	
Roses Beauties.....	20 00@75.00
" Perle, Niphetos.....	2 00@ 4 00
" Bride, Bridesmaid, Morgans.....	4 00@12 00
" Carnot, Meteor.....	6 00@12 00
Carnations, ordinary.....	1.00@ 2 00
" fancy.....	2 00@ 3 00
Valley, Daffodils.....	3 00@ 4 00
Violets.....	35@ .75
Hyacinths, Narcissus, Freesia.....	1.75@ 2.00
Tulips.....	3.00@ 4 00
PHILADELPHIA Feb. 16.	
Roses, Beauties, per dozen.....	5.00@8.00
" Teas, firsts.....	7 00@10 00
" select.....	12 00@15 00
Carnations.....	1 50@ 3 00
Valley.....	3 00@ 4 00
Violets.....	.40@ 1.00
Narcissus.....	2.50@ 3.00
Hyacinths.....	3.00@ 3.00
Harrisli.....	10.00@12 00
Daffodils.....	3 00
Tulips.....	4.00

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BRIDESMAID, BRIDE.  
Record Breaking Carnations  
ALL THE YEAR ROUND.

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43 West 28th Street, New York.

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WHOLESALE  
**FLORIST,**  
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Roses shipped to all points. Price list on application.

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Will find a good market and good  
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**WHOLESALE • FLORIST.**  
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Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.  
THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

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**BEAUTIES AND VIOLETS, SPECIALTIES.**  
Consignments Solicited

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Commission Dealer in  
**CUT FLOWERS.**  
Good Money for your Flowers.  
Good Flowers for your Money.  
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**THE NEW YORK CUT FLOWER CO.**  
119 and 121 West 23d Street,  
112 and 114 West 24th Street,  
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CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

**GEORGE A. SUTHERLAND,**  
**Cut Flowers AND Florists' Supplies**  
WHOLESALE.  
67 Bromfield St., BOSTON, MASS.

Wholesale Florists **JOBBERS IN**  
ALWAYS ON HAND:  
CARNATIONS,  
BRIDESMAIDS,  
BRIDES.  
*N. F. McCarthy* FLORIST'S  
SUPPLIES.  
FLORISTS' VASES.  
Horticultural Auctioneers,  
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**GALVIN & CO.**  
**Wholesale Florists**  
AND DEALERS IN ALL  
FLORISTS' SUPPLIES,  
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Cut Flower Consignments Solicited. Best market.

**JOHN YOUNG,**  
**ROSES, CARNATIONS, VALLEY**  
and all other choice cut flower stock.  
51 W. 28th Street, NEW YORK.  
Price list on application.

**FRANK MILLANG,**  
**CUT FLOWERS,**  
WHOLESALE COMMISSION,  
408 E. 34th Street,  
Cut Flower Exchange. NEW YORK.

**WM. C. SMITH,**  
**Wholesale Florist,**  
40 So. 16th St., PHILADELPHIA.  
Consignments Solicited. Special attention given to  
shipping orders  
Long Distance Telephone 5008 A.

Philadelphia.

LADIES' RECEPTION AT THE FLORISTS' CLUB.—BUSINESS ALL RIGHT.—BEAUTY ROSES SCARCE.—POT PLANTS SELLING BETTER.

The ladies' reception at the Florists' Club rooms on next Tuesday evening, the 22nd promises to be a most enjoyable affair. The programme includes a short musical and literary menu followed by games on the shuffle boards and bowling alleys. Only ladies will be allowed to play, and there will be three prizes and a booby for the winners at both games. Refreshments will be served during the evening and everything done to give the fair visitors a pleasant time.

Business has been all right for some time past, and nearly all branches of the craft are satisfied, except possibly the growers of Beauty roses who say they can't cut anything like enough to fill their orders. Retailers complain that Philadelphia Beauties are getting too famous over the country, and that so many are being shipped, the home market is kept constantly bare, there being none except on orders. The market for other stocks of flowers is pretty well supplied at the same rates as have prevailed for the past few weeks. Princess of Wales violets are now coming in fine and sell very well. Daffodils are a little too plentiful, and are sold as low as \$3 per hundred for very fair stock.

It is a little too early to speak of Easter stock, but there bids fair to be a fine lot of everything usually forced for this busy season. Mr. Harris has weeded out most of his diseased lilies and the balance are looking fine. A large lot of Japanese longidorums are being grown quite close together to get them to push up a little the tendency of this variety being to grow short and bushy.

Pot plants are selling better, there being now quite a large variety to choose from, the balmy spring-like weather of the past week is also conducive to their sale.

D. D. L. Farson is now in it and his violet window is very attractive, there is violet crepe paper and violets, barrels of them, and the barrels are violet hued. Violet ribbons support violet colored bottles filled with violets, everything except the countenance of the redoubtable Dan, which is as bright as ever, partakes of a violet tinge. K.

FLORISTS' MUTUAL FIRE INSURANCE ASS'N

Application Blanks and Prospectus Ready....

Write now—Delays are dangerous. W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

THE WABASH R. R COMPANY

The Short and the Long Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City, and Omaha.

The Wabash has the One Line running west from Chicago, and there are free lines between Buffalo and St. Louis, and Kansas City.

Through service is run between New York and Boston and St. Louis and Chicago.

For further information apply to the nearest Agent or to the Agent at St. Louis.

H B McCLELLAN, G. E. A., 397 Broadway, New York City.

J O McBEATH, N. E. P. A., 5 State Street, Boston, Mass.

C. S. CRANE, Gen. Pass & Tkt. Agt., St. Louis, Mo.

Detroit.

Business is moving along steadily in this city and the prospects are good for Easter trade, provided, of course, that the florists have a "good weather week" during that holiday.

The following gentlemen have signified their intention of paying a visit to the metropolis of the West during the carnation convention this week: Fred. Breitmeyer, Frank Holtznagle, George Rackham, and perhaps Gust H. Taepke. The undersigned hopes to be one of the delegation from here. PARKS.



RAFFIA BEST QUALITY, LONG MADAGASCAR

Having purchased on a very favorable market, and wishing to move the stock quickly, make the following special low quotations for prompt orders:

In bale lots (about 225 lbs.) at \$6 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 30c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

G. C. WATSON,

Juniper, below Walnut, - PHILADELPHIA.

A SET OF

Long's Florists' Photographs

Will please you in your business and bring you profits. Sets, \$1.75 up.

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GEO. E. COLE & CO.

Blank Book Makers, Stationers and Printers

86 and 88 Dearborn Street, CHICAGO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Flora Hill

CARNATION

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

E. G. HILL & CO., = Richmond, Ind.

NEW GARNATIONS

For Spring of '98 Now Ready

EVELINA, per 1000 \$80. WHITE CLOUD. GOLD NUGGET. MRS. S. A. NORTHWAY. ARGYLE. BON TON.

Price for strong, well-rooted cuttings, per doz., \$2.00; per 100 \$10.00; per 1000, \$75.00.

VARIETIES OF 1897

FLORA HILL, JUBILEE, MAYOR PINGREE, MRS. C. H. DUHME, MORELLO, VICTOR

Strong, rooted cuttings from flats, per doz., 75c; per 100, 75; per 1000, \$10.00.

STANDARD VARIETIES

ALASKA, DAYBREAK, LIZZIE MCGOWAN, MINNIE COOK, WILLIAM SCOTT, EMMA WOCHER.

Transplanted plants from flats, per doz., 30c; per 100, \$2; per 1000, \$15.

CALADIUMS, Fancy Teneyed, choice bulbs in named sorts, per doz., 75c; per 100, \$12.00

VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St.

84-86 Randolph St., CHICAGO.

**Society of American Florists and Ornamental Horticulturists.**

President W. F. Gude has appointed the following gentlemen to serve on the Executive Committee of the Society of American Florists: For two years, Mr. Edmund M. Wood, Natick, Mass. For three years, Messrs. John H. Taylor, Bay-side, N. Y.; W. W. Coles, Kokomo, Ind., and E. H. Cushman, Euclid, Ohio.  
Wm. J. STEWART, Sec'y.

**St. Louis.**

The market opened up for the week with a good demand, but very little stock. It is impossible for commission men to fill all orders. Good roses are in great demand and selling at higher prices. Carnations are scarce and bring good money. Violets not so plentiful as last week and bring about double the money lately quoted. A. J. B.

**FAXON'S "WHITE HOUSE" PANSIES.**

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.  
In Trade Packets at \$1.00 each.  
**M. B. FAXON,**  
Lock Box 1528. BOSTON, MASS.  
Correspondence solicited.

**..PANSIES..**

200,000 In cold frames of the Jennings finest strains; all extra No. 1 plants; large size, ready to bloom. \$5.00 per 1000; extra medium size for cold frames, \$4.00 per 1000. Extra 75c per 100 by mail.

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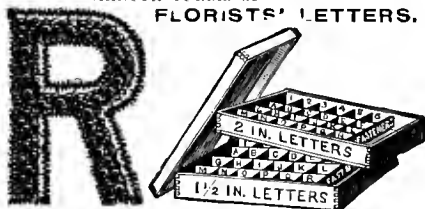
of the finest strain. \$1.00 per pkt. of 3000 seed; \$6.00 per ounce;

Cash with order. **E. B. JENNINGS,**  
Lock Box 254. Southport, Conn.  
Grower of the finest Pansies.

**John Conley & Son,**  
Manufacturers of  
**TIN FOIL**  
2 AND 4 DOMINICK STREET,  
New York.

**Boston Florist Letter Co.**

MANUFACTURERS OF  
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$3.00.  
Script Letters 34 Paste-er with each letter or word  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

**N. F. McCARTHY,** Treas. and Manager,  
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**MAIL** For Insurance against  
damage by hail,  
Address

**JOHN G. ESLER,** Sec'y, F. H. A., Saddle River, N. J

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**Commission Florist**

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Consignments  
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Send for my weekly quotations. Issued every Friday.  
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FLOWERS  
PROMPTNESS  
QUALITY.  
OPEN TILL 8 P.M.  
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**Folding Boxes and Wax Paper**

The Aull Bros. Paper & Box Co.

DAYTON, OHIO.

It is good business policy to mention the American Florist when you write to an advertiser.

The Free Seed Distribution.

A Southern Congressman received a letter some time ago which, being like hundreds of other communications, did not attract attention. It read as follows:

BLANKVILLE, Jan. 4, 1898.

DEAR SIR:—Will you please send me a parcel of cow peas from the government distribution? Very truly yours,

JAMES LANCASTER.

The package was duly sent. A week later there came another letter. It made the following request:

BLANKVILLE, Jan. 10, 1898.

DEAR SIR:—Please send me some cow peas. I only want one package.

MARY LANCASTER.

The Congressman promptly complied with the request, and thought no more about it until five days later, when there came still another letter. It was post-marked at the same country town, and was evidently from a member of the same family as his two previous correspondents. The Congressman rather smiled as he read:

BLANKVILLE, Jan. 15, 1898.

DEAR SIR:—I should very much like to have one of the bags of cow peas which you are sending free. I am your friend, and hope you will be re-elected. Yours truly,

SAMUEL P. LANCASTER.

The letters did not stop coming. Three more arrived, one from the mother of the Lancaster family, one from a daughter, and another one from a son. The Congressman thought that his constituents intended to plant a ten-acre lot with cow peas. Nothing of the kind. Yesterday he received a letter which told of the use to which the government seeds had been put. It said:

BLANKVILLE, Jan. 29, 1898.

DEAR MR. CONGRESSMAN:—We got all the packages of cow peas and thank you very much. We put all the peas together and boiled them for dinner. It was the best meal we have had for a long time. With many thanks. Yours truly,

JAMES P. LANCASTER.

—*Charleston News and Courier.*

**GERANIUMS** that will please you and prices that will suit you

S. A. Nutt, LaFayette, Heteranthe \$2.50 per 100, \$20.00 per 1000; Beauté Portovine, Mary Hill, \$3.00 per 100; Mme. Brabant, Francis Perkins, \$5.00 per 100; 10 varieties Colors; 4 varieties Carnations; 2 varieties Ageratum. Prices upon application.

H. R. CARLTON, Willoughby, O.

**Palmer's Hot Bed Mats**

**FROST PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

**Indestructible, Cheap and Warm**

WILL not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

**MADE IN FOLLOWING GRADES:**

No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

Size 40x76 inches, 50 cents each.  
" 76x76 " 75 "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.

Size 40x76 inches, \$0.75 each.  
" 76x76 " 1.00 "

Made any length, 76 inches wide, at 16 cents per running foot.

That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Every one using Hot Bed Mats should give them a trial.

PATENT APPLIED FOR.

WE ALSO MAKE

**QUILTED HORSE BLANKETS**

the Cheapest, Warmest and Strongest in the World....

**The R. T. Palmer Co.**

Or New London, Conn.

113 Worth Street, NEW YORK

Address all correspondence to The R. T. Palmer Co., New London, Conn. Agents wanted—pay good commission.



**H. BAYERSDORFER & CO.'S**

Seasonable Specialties:

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**FERNERIES AND JARDINIÈRES:**

Norman Style in Sprays, Tinted and Delft.  
Tuscan, in Sprays, Tinted and Delft.  
Milan, in Sprays.

**OUR LEADING NOVELTY:**

**LACE VIOLET HANDKERCHIEFS.**

**Wheat Sheaves and Immortelles.**

The largest and best stock in America.

New Catalogue of all **FLORISTS' SUPPLIES** on application. For the trade only.

**H. BAYERSDORFER & CO.,**

50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

**Carnation...**

**ARGYLE**

**91 POINTS**

Wins Certificate at Chicago Convention.

**STOLLERY BROS. Argyle Park, CHICAGO**



THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

Of Importance to Importers.

An order has been issued from the State Department at Washington to all U. S. consuls that hereafter all shippers of bulbs and plants to the United States must, previous to making shipments, deposit two copies of their catalogues or written price lists at the local consulate; that the contents of each case must be specified plainly upon the invoice and the latter must also state the variety, name, size, color, etc., of bulbs, azaleas, rhododendrons or other plants, and all other details bearing upon their value, before same can be approved.

These particulars must appear opposite the items to which they relate, as:

5000 Roman hyacinths 11 to 13 at — per 1000.

5000 Dutch hyacinths, mixed, pink, 1st or 2nd quality at — per 1000.

1000 Dutch hyacinths, Norma, at — per 1000.

100 Rhododendrons, 7 buds at —.

250 Azaleas, Vervaneana, 15 in. at —. And the prices given on invoice must agree with prices quoted on same article in catalogue of shipper. If any difference is shown between catalogue quotations and invoice, full reasons for said difference must be given on invoice, same to be passed upon by the appraisers at port of entry.

Importers will understand the necessity that they insist that shippers are careful to observe the above rules and show in invoices every detail bearing upon the value of the goods, otherwise the goods will not be admitted and loss will result. We are informed that it is the intention to enforce the rules literally and rigidly.

American Potatoes in England.

Writing on this subject in the London Garden, Messrs. James Carter & Co. state that a correspondent of that journal "is not quite correct when he states that Beauty of Hebron is the longest lived in this country of the American introductions, for it was many years previous that Early Rose came over, and is still grown in large quantities. We were among the first to bring it into general notice, and have still the original stock on our seed farms. As proving that there is still a market for it, we may state that we have already disposed of a large quantity of seed this season. Most of the American varieties serve us best here in a dry summer, and give the most satisfactory results on light and well drained soils."

Toronto.

Business continues very good, but stock is short. One large grower says he can't nearly fill the orders coming in. The very cloudy weather we have had ever since the beginning of November is no doubt principally to blame. It is many years since we have had such dearth of smiles from Old Sol as during the last three months.

The Gardeners' and Florists' Association held their annual meeting on Thursday evening, February 10, and had the usual good time. TORONTO.

JOSEPH BRECK & SONS, CORP'N.

GROWERS OF

Peas, Beans and Sweet Corn

JOBBER AND DEALERS IN

GARDEN SEEDS

Wholesale Catalogue Now Ready

OF ALL KINDS

18 N. Clark St., CHICAGO.

Seed Stores and Flower Stores

Can profitably handle our Packages of Plant Food. Attractive, take little shelf room. Valuable booklet free. Good profits.

The WALKER FERTILIZER CO. Clifton Springs, N. Y.

THE ALBERT DICKINSON CO. DOMESTIC AND FOREIGN

GRASS SEEDS

FOR

Parks, Tennis Courts, Lawns, &c.

In fancy 1 and 2 pound packages and bulk. SPECIAL PRICES TO THE TRADE. CHICAGO, ILL.

Why Not Try

Pure Eastern-grown Corn and Seeds. Contract with the EVERETT B. CLARK CO. for 1898 Crop. Sole Manufacturers and Proprietors of the Genuine Trawbridge Grafting Wax, now ready in 1-lb. bars at 11c; 1/2-lb. bars, 12c; 1/4-lb. bars, 13c. (STRICTLY WHOLESALE DEALERS)

THE EVERETT B. CLARK CO. MILFORD, CONN.

"BEST OF ALL" TOMATO (FOR FORCING) "ENGLISH" MELONS (FOR FORCING)

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SEEDS LAWN GRASS \$12.00 per 100 lbs.

Finest Quality Ever Offered (Retail at 30c. lb.)

J. CHAS. McCULLOUGH, SEEDSMAN, RECLEANER AND JOBBER GRASS SEEDS

North-East Corner Second & Walnut Sts., Cincinnati, O. Send for Illustrated Catalogues.

FOR THE TRADE ONLY.



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WE import all kinds of Japanese Bulbs, Plants and Seed, and have our own Nurseries and Farms in Japan. We expect large shipments of Lilium auratum, L. spec. album, rubrum, Melpomene Cycas stems and Maples. Prices on application.

SUZUKI & IIDA,

No. 15 Broadway, NEW YORK.

No. 3 Nakamura, YOKOHAMA, JAPAN

BURPEE'S SEEDS PHILADELPHIA.

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Send for quotations on all Florists' Bulb Stock.

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The Cleveland Seed Co.

Contract Growers of

Peas AND Beans

and General

JOBBER IN SEEDS.

Cape Vincent, N. Y.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Dracaenas.

NOTES ON PROPAGATING AND CULTURE.

Answering inquiry of "Toronto," I will state that in order to color dracaenas properly three points must be carefully observed. First, the plants must be properly potted, secondly they must be grown on briskly in a stove-house temperature with plenty of moisture in the air, and they must have lots of light to produce the best results. Few plants are prettier for the center of a table or for room decoration than a well grown or nicely colored dracaena, and where one can command an abundance of heat, light and moisture no plant is easier to grow satisfactorily, but the conditions named are indispensable.

Dracaenas are easily propagated and by several methods. The tops may be cut off and placed in a bottle of rain water, adding a piece of charcoal; the tops may be rooted on the plant by cutting away a small portion of the bark about one-eighth inch wide and three parts around the stem, then make an upward cut about one inch cutting half way through the stem, draw a little moss into the cut to keep it open, then place a ball of moss around the cut, bind it tightly with raffia, keep well moistened and it will soon root through, when it should be cut off below the ball, and without disturbing the roots; pot into 3-inch pots, using at this stage a soil composed of three-fourths fibrous loam, one-fourth sphagnum moss, rubbed through a half-inch-mesh sieve, adding a little coarse sand. The old stems or imported canes may be split the full length and laid flat side down under the benches in the stove house, covering them with two inches of sand and they will soon break away at the joints and make roots, when they may be divided and potted into 2-inch pots.

The roots of dracaenas in most cases form fleshy tips, and often near the sides of

the pot; these may be taken away carefully, so as not to disturb the mother plant, and put in sand in the propagating bed, covering with sand about two inches in depth. They will soon make plants. Indeed, dracaenas propagate naturally by these tips and by seed, but the latter is too slow except on a very large scale. On the plants developing into specimens I use for 7-inch and larger pots, loam, lumpy peat, adding a little charcoal, and where the character of the loam demands it, enough coarse sand to keep it open and healthy.

Brisk heat, plenty of light and moisture (except on dull days of course), will give you fine plants with leaves to the pot and no complaint about the coloring.

WILLIAM RAYNOR.

SOLANUM WENDLANDI

The most showy semi-climber of recent introduction. Strong 3-4 ch plants now ready. Also Little Gem Callas, 2 1/2 inches Logan Berries, Strawberry Raspberries, Mayberries. Write for list and prices.

The Conard & Jones Co., WEST GROVE, PA.

NEW GIANT ESCHSCHOLTZIAS, "THE GOLDEN WEST."

50c pkt., \$8 oz. New Giant Fancy Cosmos, six splendid varieties, separate, \$1 oz.; Giant Cosmos, splendid mixed, 50c oz.; Calliopsis "California Sunbeams," \$1 oz. Special rates given on Cosmos in quantity; Apple Geranium, fresh, \$1 per 1000 seeds; New Large Flowering Zonale Geranium, \$2.50 doz.; Ipomoea, "Heavenly Blue," \$1 oz., \$12 lb.; Laurustinus grandiflora, \$1 oz.; Zinnias, "New Curled and Crested," 50c oz.; \$5 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8 per 15 lbs.; Scarfthia elegans (Palm) 40c per 100 seeds, \$3 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

MRS. THEODOSSIA B. SHEPHERD, Ventura-by-the-Sea, Cal.

Please mention the American Florist

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- Vick's Branching Aster Sweet Peas
New Daybreak Aster Dahlias Begonias
Gloxinias Flower and Vegetable Seeds

VICK'S GARDEN and FLORAL GUIDE for 1898

the pioneer Seed Catalogue of America, is a perfect beauty, the best one we have issued in the forty nine years of our business. We can honestly say that it leads them all. Those interested in the trade would do well to send for a copy of both wholesale and retail at once.

JAMES VICKS SONS, ROCHESTER, N. Y.

Bargains in Valleys

from a newly arrived consignment we offer...

Fine Hamburg Lily of the Valley Forcing Pips

- A. Selected run \$10 per 1000 \$24 the box of 2,500
B. Ordinary run \$8 per 1000 \$18 the box of 2,500
Not 30 days to approved accounts, less ten per cent for cash with order.

LISTEN!

AUGUST ROLKER & SONS, 52 Dey St., New York

TUBEROUS BEGONIAS

\$4.00 per 100. These are large, extra fine Bulbs, English strain.

- LILIUM SPECIOSUM RUBRUM, \$3.50 per 100
LILIUM SPECIOSUM ALBUM, \$4.50 per 100

Fine variety of Begonias, Callas, and other plants.

L. C. BOBBINK, Rutherford, N. J.

Branch of The Horticultural Co., Boskoop, Holland.

CANNAS NEW AMERICAN Finest in the World Our Novelties for 1898

- DUKE OF MARLBORO, darkest crimson, \$30.00
DUCHESS OF MARLBORO, only pure pink, 30.00
TOPAZ, only absolutely large pure yellow, 50.00
LORRAINE, pink, edged white, fine, 30.00
MAIDENS BLUSH, delicate flesh color, 15.00
GOLDEN PEARL, yellow, nearly double, 30.00
CUBA, finest and largest gilt edged, 40.00
GLORIOSA, very dwarf, March delivery, 12.50
PHILADELPHIA, glowing crimson, 15.00
CHAMPION, largest, glowing scarlet, \$5.00 each
KLONDIKE, only large pure orange, \$2.50
Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

OUR CANNAS IN FRANCE.

To Messrs. A. Blanc & Co. Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Crimson, etc. Signed CH. MOLIN, Lyon, France, Jan. 3, 1898.

ASPARGUS SPRENGERI

Fine plants in 6-inch pots, ready for 8-inch \$5 per 12.

AMARYLLIS....

Velloz's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

CALLAS

Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each.

DAHLIAS

11 prizes out of 23 at the last Dahlia exhibition. First prize Dahlia, 444 T. EDG E. \$15 per 100. Send for special list.

A. BLANC & CO., Philadelphia, Pa.

SPRING BULBS

- LILIUM AURATUM. Per 100 Per 1000-
7-9 inch, \$3.75 \$35.00
9-11 inch, 5.00 45.00
LILIUM RUBRUM (Speciosum)
7-9 inch, 4.75 40.00
9-11 inch, 6.75 60.00
LILIUM ALBUM (Speciosum)
7-9 inch, 6.50 55.00
9-11 inch, 7.50 65.00

- BEGONIAS TUBEROUS ROOTED...
Single, separate colors, 3.50 30.00
Double, 9.00

TUBEROSES....

True Excelsior Pearl. "Hallock strain" First size, 1.00 7.50

- GLOXINIAS..... Per doz., 85c; per 100, \$5.00
CALADIUMS.....

Fancy leaved, choice bulbs, per doz., \$1.75; per 100, \$12.00.

CALADIUM ESCULENTUM

Cured and sound bulbs with live center shoots. Doz. 100-
5 to 7 inches in circumference, \$ .40 \$2.50
7 to 9 " " " .65 4.50
9 to 12 " " " 1.00 6.50
50c per 100 less on 7 9 inch and 9-12 inch sizes if shipped from New York.

- GLADIOLUS XXX Florists Mixture
Per 100 ... \$1.75 Per 1000 ... \$15.00

VAUGHAN'S SEED STORE

NEW YORK 14 Barclay St. CHICAGO 84-86 Randolph St.

FLORISTS' FLOWER SEEDS.

- Aster Betteridge Prize mixed, .25 \$1.00
Hwarf Beauty Perfect, .30 1.50
New Dwarf Botanic Hybrid, .30 2.50
Victorie, extra fine mixed, .40 1.10
Balsam, Double Camellia flowered, white, .25 1.00
Bellis perennis, double daisy, .25
Carnation, choice double, .50
Centauria candidissima, .25
Cosmos gymnocarpus, .15
Lobelia, .20
Rosa odorata grandiflora, .40
Nasturtium, tall or dwarf, .5 1.5
Pansy, H & B Giants, .25 2.00
H & B extra large, .25 1.50
Stocks, German Ten Weeks, .25
Verbena, Mammoth, very Blue, .25
A discount of 10 per cent. on all orders of \$5 or more. Our seeds are strictly first class and we solicit a trial order. We carry a full stock of all different kinds of flower seeds. Sent by mail postpaid.

HECKENKAMP & BLAESING, Seedmen, 6th Ave. and Adams St., - QUINCY, ILL.

## Milwaukee, Wis.

The past two weeks have been what may fairly be termed a little slow. All florists have purchased and displayed in their windows the usual number of flowers; they have all made a nice display daily, but there were not many orders filled except from this display stock. Good sized standing orders have been reduced, although the amount purchased is almost equal; this is due to the fact that the supply at wholesale market has improved some in quantity and quality, so that florists feel safe in taking their chances from day to day in picking just what they want, thereby taking less chance of waste, the consequence being that the best sells first, and the inevitable waste falls heaviest on the grower. About the poorest paying stock when grown in quantity is callas. One change is noticeable, and in line with improved taste is the "cold shoulder" being turned to Von Sion narcissus. There has been quite a stock on this market, much of which is not first-class. The single narcissus, such as Princeps and the smaller varieties with more grass-like foliage, called jonquils, are much more popular. Pansy blooms and mignonette plants, notably those grown by Mr. Zepnick, meet with favor. Azalea plants are coming slow and steady and sell promptly. The violet supply is very good and sells quite well. The same is said of roses, except Beauties—the quality is not such as induces florists to put them to the front.

The retail buyers are beginning to learn that the price of carnations varies according to quality, the same as with roses; most florists have their order file quite full for this week. From February 14 to 22 promises to be one of the busiest weeks on record. If the present weather continues, both grower and retailer will do well. The use of Alabama smilax is quite popular, one florist alone has orders requiring fourteen cases.

A centerpiece arrangement designed by a local florist, has become quite popular of late. It is made by the use of a few potted plants and cut stuff arranged in the form of an irregular mound. This is varied in size and shape to suit the situation. The flowers used are most frequently "spring flowers," pansies and violets, and their foliage are arranged in the lower niches. Narcissus, freesias, etc., in clusters higher up, a few grasses with gladiolus or a stalk of something prominent on top. Such an arrangement looks entirely different from different points of view, and society ladies are quite enthused. One of these had a strangely-shaped *Daphne odorata* which projected out mostly to one side, this not having much foliage. *Asparagus tenuissimus* was growing up the branches and hung over very daintily. Under this was a flat of moss and lycopodium in which a few valley were in natural position. The other side was rounded out, on which were tulips and narcissus.

Mr. A. Klokner's large stock of orchids is improving under his care, and peeps in his houses suggests the idea of his making a specialty of them in the near future.

C. B. W.

WINDOW AND PLATE  
GLASS  
JOHN LUCAS & CO. PHILA.

A. L. VAUGHAN

C. W. MCKELLAR

ED. F. WINTERSON

Vaughan,  
McKellar & Winterson,

Wholesale.\*.\*



# Commission Jobbers...

In CUT FLOWERS,Plants, Seeds, BulbsAnd All Florists' Supplies

Manufacturers of WIRE GOODS  
High-Grade Stock Our Specialty.\*



**Vaughan, McKellar & Winterson,**  
45-47-49 WABASH AVENUE,  
CHICAGO

## WOODEN LABELS for FLORISTS and NURSERYMEN

Being located at the head center of this country for White Pine Lumber we are able to buy our stock right and furnish our customers with goods of the best quality and at prices which will put them at your station lower than the lowest. Our factory is thoroughly equipped and turning out promptly the most uniform, smooth and best painted goods made in this country, put up in neat packages, guaranteed full count and nicely crated.

SEND FOR SAMPLES AND PRICES.

WOODEN GOODS COMPANY, 83 Western Ave., MINNEAPOLIS, MINN.

## WANTED To Fill One House With General Stock

Send your surplus cash prices only.  
Address offers and catalogs to .....

Parlor City Floral Co.,

P. O. Drawer 592.

CEDAR RAPIDS, IA.

PURE BONE FLOUR.	Ammonia ..... 14.684
Ammonia..... 46	Bone Phosphate, 6.748
Bone Phosphate..... 608	PURE DRIED BLOOD.
Send for prices and references.	
GEO. S. BARTLETT,	SUCCESSOR TO
CINCINNATI, O.	Cin'ti Desiccating Co.
1255-1257 West Sixth Street.	

Louisville, Ky.

Business has been very brisk in the past few days: Monday especially, every florist in the city was kept busy answering telephone calls and getting out orders.

Roses and carnations have been scarce all winter, but the growers have not been fortunate enough to receive any more for their stock than in previous years. I have always thought it has been on account of this city not having a commission house. Every grower in the city must come or send to town and peddle his stock at whatever price he can get, therefore losing much valuable time and getting very little money for his stock. I think if some enterprising man who is posted in the commission business would open a house here the growers would be willing, nay anxious, to send him consignments.

The Kentucky Society of Florists have concluded to hold their annual spring show on March 30 and 31 and April 1 and 2. This one promises to eclipse them all. These spring shows have always been a financial success, and have been the means of adding many a dollar to our treasury, and we hope to see many consignments of flowers, especially new varieties of both plants and cut flowers, from florists outside of the city.

Nanz & Neuner are cutting some of the finest mignonette ever seen here, and it has been said they are cutting it by the bushel.

C. H. Kunzman is still cutting some very fine sweet peas, which have been in crop with him ever since Christmas.

C. H. K.

Old Rose Soil.

"Canadian Subscriber" asks what to add to old rose soil to fit it for use in transplanting tomato and celery plants. Do not use old soil at all if you can avoid it. It is the worst kind of economy to make use of an old worn out soil. Fungous diseases are apt to be increased in this way also. If a crop is worth growing at all, the best fresh new composted soil is none too good. Rose soil if proper for roses is too heavy for tomato and celery plants. If "Subscriber" is compelled to use it, lighten it up with leaf mold, and sand, add a liberal amount of well rotted stable manure, and sweeten it with wood ashes (unleached). If the latter can not be obtained use slaked lime.

X.

**PALMS and FERNS**  
 The Largest Stock of PLANTS IN THE WEST  
  
**GEO. WITBOLD**  
 1708 N. HALSTED ST.  
 CHICAGO

**ORCHIDS ORCHIDS**  
 Growing and Importing of  
**ORCHIDS**

Our Specialty. Correspondence Solicited.  
**LAGER & HURRELL, - Summit, N. J.**

Say "saw your ad in the Florist" when you write advertisers

**HARDY**  
**Herbaceous Perennials**  
 THE MOST COMPLETE STOCK IN AMERICA.  
 PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

**JACOB W. MANNING,**  
 The Reading Nursery, READING, MASS.  
 ESTABLISHED 1854.  
 When writing mention the American Florist.

**BOSTON FERN**

Nephrolepis Exaltata Bostoniensis.  
 Strong plants, 6-inch pots, \$1.00 each; \$12.00 per doz.; also three varieties of PTERIS, bushy plants, 5-inch pots, 20c each; \$2.40 per doz.

**JOHN WELSH YOUNG,**  
 ...CERMANTOWN, PA.

**ROSE HILL NURSERIES,**  
**SPECIAL OFFER**

**Cocos Weddeliana** \$6.75 per 1000.  
 5000 lots, \$36.00.

**SIEBRECHT & SON, New Rochelle, N. Y.**  
 New York Office, 409 Fifth Avenue.

**BEGONIAS**

Single, separate colors, .....	100,	1000,
Double, .....	\$3.00	\$25.00
Gloxinas, mixed, .....	7.50	45.00
.....	4.00	35.00

**J. L. SCHILLER, 404 E. 34th St., New York.**  
 Sole Agent for Louis van Driessche, Ghent.

**FEBRUARY OFFER.**

Alternanthera, Yellow, \$1.50; Red, .....	Per 100	\$2.00
English Ivy .....		3.00
Begonias, 5 var. ....		3.00
Oxalis Floribunda .....		2.50
Ceraniums, 16 Var., 2-in. pots .....		2.50
Pansy Plants .....		1.00

CASH WITH ORDER

**JOS. H. CUNNINGHAM, Delaware, O.**

**DWARF PAPAYAS**

**M**UST magnificent bedding and decorative plant known. Equal to a palm in beauty and manner of growth; grows with the ease of the Ricinus and endures drought with impunity. Plants from 4-in. pots set out June 1st attained a height of 10 feet and though not watered once, remained fresh and vigorous throughout the extreme drought. Also produces a delicious fruit; as easily grown as a tomato. Our plants are propagated from a tree which has produced this winter 192 lbs. of fruit, the largest weighing 12 lbs. Send for half-tone illustration from photo showing bed of these plants. Every florist needs it. Price \$2.25 per doz for 3-in. pots, ready May 1st. We are headquarters for tropical plants. Send for list.

**Martin Benson,**

**DONGOLA, - - ILLINOIS.**



**EVERGREENS AND FOREST TREES**



FLORISTS AS WELL AS NURSERYMEN HANDLE MY NURSERY-GROWN EVERGREENS AT A BIG PROFIT

Leaders for this season. 300,000 transplanted Hemlocks. Over 1,000,000 of the beautiful Rocky Mountain Evergreens. 200,000 Red Cedar from northern seed and millions of the old standard sorts, such as Spruces, Pines, Balsams and Arbor Vites. My trade list costs you nothing but a postal card.

**D. HILL, Evergreen Specialist, - Dundee, Ill.**

**Palms,**

**Pandanus Veitchii,**

**Ferns and Araucarias,**

IN ANY QUANTITY.

**JOHN SCOTT.**

Keap Street Greenhouses,

... BROOKLYN, N. Y.

**ROBERT CRAIG**  
**Roses, Palms**  
 and Novelties in Decorative Plants.  
 Market and 49th Street, PHILADELPHIA, PA.

**SPECIALTIES**

IN BEST VARIETIES.  
**ROSES,** from 3-inch pots.  
**CARNATIONS,** for fall delivery.  
**CHRYSANTHEMUMS.**  
**SMILAX.**  
**VIOLETS.**

Prices low. Send for list.

**WOOD BROTHERS, FISHKILL, N. Y.**

**Cocos** Healthy Growing Plants  
 Samples for Stamps

**Weddeliana...**

2 1/2-inch pots, \$6.00 per 100.

**VICTOR GARNATION**

From sand, \$4.00 per 100;  
 \$35.00 per 1000. The best  
 pink on the market!

**B. REDFIELD**

GLENSIDE, PA.

**GALAX LEAVES AND**

**LEUGOTHE SPRAYS...** Green and Bronze  
 Of all wholesale florists—or  
 write the introducer for free  
 samples and information.....

**HARLAN P. KELSEY,**  
 150 Tremont Building. BOSTON, MASS.

**BRILLIANT GREEN AND BRONZE GALAX LEAVES,**

For Decorating and all Florists' Designs.  
**CHAS. H. RICKSECKER, Livonia, Mitchell Co., N. C.**

**Pittsburg.**

The florists' business continues fairly good, with nothing of any novelty or extra event to report in the line of decorative efforts. Owing to a very sad disaster, in the shape of a large fire entailing a loss of twenty lives and nearly \$2,000,000 loss, the florists generally were kept busy for a couple of days furnishing floral funeral designs, many of those killed being prominent in police and secret order societies. Strange to say none of the firemen were killed, although several were severely injured.

The Pittsburg and Allegheny Florists' and Gardeners' Club held a meeting on the night of the 10th inst. It is very probable that the club will change both their meeting nights as well as the place of meeting. As soon as this is settled the new committee on entertaining projects will get down to work.

Mr. M. Rice, of Philadelphia, was a visitor this week. REGIA.

**Rochester, N. Y.**

The market is now fairly well supplied with flowers of all sorts, excepting A1 roses. The demand for the past week has been really good, and everything available was used up to good advantage.

Some very elaborate dinner decorations were called for on several occasions since last report, and several more of equal importance are booked for the end of this and the beginning of next week. Orders for funeral work were unusually heavy, and on Valentine's day fancy boxes filled with select flowers were in good demand, more so than on former occasions.

Our florists are very much pleased with

the steadily increasing custom of sending floral valentines, and nearly all had made ample preparations to meet the demand, which is mostly for best quality of finest flowers tastily arranged in a fancy box. People do not send bulky flowers, nor great quantities, but are willing to pay a

reasonable price for good varieties. Blooming plants also were disposed of quite freely on that day, azaleas, genistas, cinerarias, cyclamens and a large assortment of bulbous stuff in pans found ready purchasers, causing a very acceptable increase in the volume of business. J. B. K.

# Everybody Wants Them!

THE BEST FOUR  
IN THEIR  
RESPECTIVE  
CLASSES TO DATE:

**FLORA HILL, The Best White.**

**VICTOR, The Best Pink.**

**MAYOR PINGREE, The Best Yellow.**

**LILY DEAN, The Best Fancy.**

**Sure Money-Makers Everyone!**

**Rooted Cuttings Now Ready.**

Also **Maud Dean, Jubilee, Mrs. Geo. M. Bradt, Triumph, Mrs. McBurney** and other standard varieties. . . . .

Also all the new varieties being introduced this Spring. Write and tell us your wants and we will give you estimates as low as anyone for first quality stock.

We are in receipt of many letters from customers regarding the quality and selection of our stock of which the two following are a fair sample:

52d and Market Streets,

Philadelphia, Jan. 25th, 1898.

Wm. P. CRAIG, Dear Sir—I am highly pleased with the 2,500 Flora Hill rooted cuttings you sent me yesterday. They were as well rooted as any carnation cuttings I ever handled, and perfectly healthy. Such stock will do you credit no matter where you send it. Yours truly,

JACOB BECKER.

Baltimore, Md., Jan. 24th, 1898.

Wm. P. CRAIG, Dear Sir—The 1000 Flora Hill cuttings came down in good shape and are very satisfactory. Please book our order for 1000 Mrs. Bradt and 500 Mayor Pingree and ship when ready. We thank you for the personal attention given our order. We must say the stock shows careful selection. Respectfully yours,

HALLIDAY BROS.

**CATALOGUE READY SOON.**

**Wm. P. Craig, Market and 61st Sts. Phila., Pa.**

# CARNATIONS

LANCASTER, PA., Feb. 11, 1898.

(COPY)

THE AMERICAN JADOO CO.,  
815 Fairmount Ave., Philadelphia, Pa.

I have experimented with JADOO FIBRE in a small way for propagating CARNATIONS and FIND THAT THEY ROOT WITH ORDINARY CARE ONE HUNDRED PER CENT.

NEXT SEASON I SHALL USE IT ALMOST EXCLUSIVELY FOR PROPAGATING MY CARNATIONS.

Respectfully Yours,  
(Signed) ALBERT M. HERR.

# JADOO FIBRE AND JADOO LIQUID



# DREER'S "Special Offer" of Carnations

ROOTED CUTTINGS.

All of the following are grown from clean vigorous stock and in A1 condition. For full description see our Wholesale Price List.

Novelties and Varieties of Recent Introduction							
	doz.	100	1000	doz.	100	1000	
Bon Ton.....	\$2.00	\$10.00	\$75.00	John Young.....	\$2.00	\$10.00	\$75.00
Empress.....	2.00	10.00	75.00	Mrs. Geo. M. Bradt.....	1.00	6.00	50.00
Flora Hill.....	.75	5.00	40.00	Mrs. James Dean.....	2.00	10.00	75.00
Gold Nugget.....	2.00	10.00	75.00	New York.....	2.00	10.00	75.00
Harrison's White.....	.75	5.00	40.00	White Cloud.....	2.00	10.00	75.00
Jack Frost.....	2.00	10.00	80.00				

STANDARD VARIETIES							
	doz.	100	1000	doz.	100	1000	
Anna Webb.....	.35	\$2.00	\$15.00	Lawrence Thompson.....	.35	\$2.00	\$15.00
Alaska.....	.35	2.00	15.00	Orange Blossom.....	.50	3.00	25.00
Armazindy.....	.50	3.00	25.00	Portia.....	.30	1.50	12.50
Buttercup.....	.75	4.00	35.00	Rose Queen.....	.30	2.00	15.00
Daybreak.....	.35	2.00	15.00	Thos. Cartledge.....	.35	2.00	15.00
Eldorado.....	.50	3.00	25.00	Tidal Wave.....	.35	2.00	15.00
Helen Keller.....	.50	3.00	25.00	Wm. Scott.....	.30	1.50	12.50
Lizzie McGowan.....	.30	1.50	12.50	W. D. Sloane.....	.35	2.00	15.00

HENRY A. DREER, 714 CHESTNUT STREET, Philadelphia, Pa.

## Do Not Buy Carnation Cuttings

At a less price than it costs to grow them and expect good stock. Our prices are as low as good stock can be sold for.

White Cloud.....		
Gold Nugget.....		
Empress.....	\$ 2.00 per doz.	
Mrs. Frances Joost.....	10.00 per 100.	
Wellesly.....	75.00 per 1000.	
Conch Shell.....		
Psyche.....		
Painted Lady.....		
Daybreak.....	\$2.00 per 100;	\$18.00 per 100
Jubilee.....	3.50 per 100;	30.00 per 1000
Eldorado.....		
Meteor.....	\$ 2.00 per 100	
Bridesmaid.....	15.00 per 1000	

FLORA HILL.....	
C. A. Dana.....	\$ 5.00 per 100
Victor.....	40.00 per 1000
Morello.....	
Mayor Pingree.....	
Nivea.....	\$ 3.00 per 100
Edith Foster.....	25.00 per 1000
Jahns.....	

Alaska.....	\$ 1.50 per 100
Scott.....	
McGowan.....	
Tiiumph.....	\$ 2.50 per 100
Mrs. McBurney.....	
H. Keller.....	
Armazindy.....	20.00 per 1000

H. F. LITTLEFIELD, Worcester, Mass.

# EVELINA

Is the grandest mid-winter carnation extant. This is the unanimous opinion of all who have seen it growing and predict for it a grand future. ✨ ✨ Surpasses Wm. Scott.

R. WITTERSTAETTER, Sedamsville, O.

Send your name and address and receive illustrated and descriptive price list of Evelina.

## 50,000 Flat-Grown CARNATIONS

STRONG STOCK.	per 100	per 1000
Daybreak.....	\$2.00	\$15.00
Scott.....	2.00	15.00
Rose Queen.....	2.00	15.00
Tidal Wave.....	1.50	12.00
Portia.....	1.50	12.00
Bob Boy (new).....	10.00	
Jubilee.....	3.00	
Rose Queen.....	10.00	
Silver Spray.....	1.50	12.00
L. McGowan.....	1.50	12.00
Eldorado Meteor.....	2.00	
Flora Hill.....	5.00	
Triumph Armazindy.....	5.00	
Portia (new and Uncle Sam (new, both varieties).....	10.00	

Cash with order HENRY A. NIEMEYER, Erie, Pa.

## NATHAN SMITH & SON

Wholesale Florists

Specialties. ✨ ✨ ADRIAN, MICH.

CHRYSASTEMUMS  
CARNATIONS ✨ ✨  
AND VIOLETS ✨ ✨

... CORRESPONDENCE SOLICITED ...

# Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

Is a much more substantial flower than Daybreak; color a shade or two darker and entirely rust proof. Can be seen at Vaughan, McKeller & Winter-son's every Wednesday and Saturday.

HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

# FIREFLY

A RUST PROOF CARNATION FOR BUSINESS.

Bright scarlet and POSITIVELY RUST PROOF. As productive as Scott. Rooted Cuttings Feb. 15th. \$10 per 100, \$75 per 1000. Send for descriptive list of Firefly and fifteen other novelties of '08. Fifteen varieties of '07 and older standard sorts.

GEO. HANCOCK & SON, - GRAND HAVEN, MICH.

## \$100 REWARD

will be paid for any RUST found in our Carnations. All Pure and Healthy. Throw out that old RUSTY Stock, begin anew with clean stock.

WE HAVE NICE ROOTED CUTTINGS, A NO. 1.

Meteor.....		Storm King.....	\$1.50 per 100
Scott.....	\$1.50 per 100	Daybreak.....	\$12.50 per 1000
Goldfinch.....		William Scott.....	
Albertine.....	\$12.50 per 1000	Nice specimen plants Geranium La Favorite, 3 in. 20c ea	
Bridesmaid.....		Catins, 5 inch, just right for Easter, \$15.00 per 100.	
Uncle John.....		Primula 3 inch, 2c per 100.	

MCDONALD & STEELE, 109 S. Washington St., Crawfordsville, Ind.

Nashville, Tenn.

Flowers of all kinds, which for a while were scarce as the proverbial hen's teeth, have begun to come in more abundantly and in excellent quality.

Valentine's day found all florists with a good supply, and what was of more importance, an excellent demand. Violets, of course, were the favorite, and some few violet hearts were sent as tokens to fair lady loves, but the great majority of sales were for loose violets or loosely tied in bunches. Violets have been very fine, especially the California variety.

At a recent funeral of a young girl in this city, the words "Please omit flowers," was inserted at the end of the funeral notice, but while friends were barred from sending these dainty tokens of their sympathy, the relatives, whose name was legion, were permitted to lay their offerings upon the altar. The prevailing and preferred flower was the violet, and these, double and single, small and large, light and dark, were made into beautiful wreaths and garlands, completely covering the casket of the dead girl. A pretty conceit, but rather sombre for the early dead.

In a few short weeks, or from present indications, days, all the spring flowers will be in bloom, or at least the jonquils and golden-candlesticks will be showing their yellow blossoms. It takes away all the sentiment, in this section, to call these early harbingers of early spring by the prosaic name of "Trumpet majors."

M. C. DORRIS.

New Castle, Ind.

I paid E. G. Hill & Co. a visit this week, especially to see the much talked-of Painted Lady and other fine seedlings which he is growing. In Painted Lady he has one of the finest, that he has yet sent out. In color, it is of a bright and very pleasing shade of pink, with outer petals slightly lighter. The calyx and stem are strong and perfect, the flowers of fine size, and the plants perfectly healthy and free from rust. The profusion of bloom is another good quality which adds much to its value as a commercial flower. Psyche is much on the order of Helen Kellar. Probably not so heavily penciled. America is a very magnificent red not yet disseminated, but will create quite a sensation when it is, on account of the immense size of the flowers. It is slightly lighter in color than Jubilee, and is also said to be rust proof. Flora Hill is here seen in all her glory. It is indeed hard to beat.

HERBERT HELLER.

50,000 ROOTED CUTTINGS

CARNATIONS

Rose Queen, \$1.25 per 100, or \$10.00 per 1000; Jubilee, \$2.50 per 100, or \$20.00 per 1000; H. Ketter, W. Scott, Thos. Cartledge, \$1.00 per 100, or \$7.50 per 1000; Lizzie McGowan, 75c per 100, or \$6.50 per 1000; Harrison's White, Eldorado, \$2.00 per 100, or \$15.00 per 1000

CHRYSANTHEMUMS

Two-inch pots  
Major Bonaffon, \$3.00 per 100, or \$20.00 per 1000; The Queen, Pink Ivory, \$3.00 per 100, or \$20.00 per 1000; Prest- dent Smith, Eda Frass, \$2.00 per 100, or \$15.00 per 1000.

VIOLETS

Marle Louise \$6.00 per 1000; Double Alysium, 2-inch pots, 75c per 100. Cash with order or satisfactory reference.

PAXTON GREENHOUSES,

C. E. Taube, Prop. Harrisburg, Pa.

Carnations  
Chrysanthemums

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

NEW GARNATION

"Mrs. S. A. Northway"

A soft shell pink, developing to nearly pure white.

OUR MASTERPIECE.

We shall commence shipping soon.

Orders booked now and filled in rotation. . . .

PRICE: PER 100, \$10.00. PER 1000, \$75.00.



Newer Geraniums.

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2 1/4-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.

GENERAL LIST OF GERANIUMS.

A superb stock in quality and variety of all the finest sorts, from 2 1/4-in. pots, named. \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.

Fuchsias.

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.

OUR PRICE LIST now ready, contains prices on many other plants.

SEND FOR IT.

W. P. SIMMONS & CO., Geneva, Ohio.

W. P. SIMMONS & CO.

Make the following statement to the readers of the American Florist.

As originators and introducers of "Silver Spray," "Tidal Wave," "Daybreak," and "Rose Queen,"

each of which has, we believe, proven even better than we claimed for them. We NOW say for 1898 that

"Mrs. S. A. Northway"

possesses all the good points that go to make up a first-class and profitable cut flower sort, and that we introduce it with even more confidence than we did the others.

It is an extra strong grower. It is free from rust or disease. It is a profuse bloomer. It has exceedingly strong stiff stems.

It is of exquisite form full and double.

The flower is high built, petals serrated.

The calyx does not burst.

It is delightfully fragrant (a quality lacking in many new ones.)

NEW PINK CARNATION

MRS. FRANCES JOOST

SEEDLING from McGowan x Wm. Scott; tested for four years. It is of an exceedingly pleasing color and proved itself an early and most prolific bloomer. It makes in a short time a fine bushy plant, and has the form and habit of what carnation men say make an ideal plant. Positively free from rust. The stem is strong and heavy enough to carry the large flower erect without tying of any sort. Calyx perfect; never bursts. It is a good keeper and a good shipper. You will make no mistake by trying a few. Rooted cuttings ready now. All orders filled in rotation. As the sale of the stock of this carnation will be limited, it is advisable to order early if you want any. Satisfaction guaranteed.

CASH WITH ORDER.

Price, \$2 per doz.; \$10 per 100; \$75 per 1000.

C. BESOLD, MINEOLA, Long Island, N. Y.

SOUTH PARK FLORAL CO., New Castle, Ind.

ROOTED CUTTINGS.

We grow prize winners. Try our fine strong stock and grow fine flowers.

Alaska	.....	
McCowan	.....	\$ 2.00 per 100.
Albertini	.....	
Scott	.....	\$15.00 per 1000.
Keller	.....	
Triumph	.....	
Daybreak	.....	\$ 3.00 per 100.
Jubilee	.....	
Armezindy	.....	\$ 4.00 per 100.
McBurney	.....	
Flora Hill	.....	\$ 5.00 per 100.
Mayor Pingree	.....	

We are wholesalers of Fine Cut flowers, Roses, Carnations, Violets.

Notice the report of the meeting of the Indiana florists Jan. 20, and see who got the awards

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Erie, Pa.

Uncle Sam, Rob Roy, Pluto and Snow Queen are the latest seedlings introduced by Mr. Henry A. Niemeyer.

Like its namesake, Uncle Sam is "bold" and erect, promising to hold its ground against all odds. Pluto, of a pleasing plum color, may not suit the popular fancy at first sight, though a closer acquaintance with the nature of this seedling, and it has many good points, would no doubt win it many admirers. Snow Queen, as its very name implies, is a white one, and if it does as well elsewhere as it does with Mr. Niemeyer its future is assured. Mr. Niemeyer grows a house full of this variety, and that house is decidedly a paying one. Rob Roy, a red one, is of the "bread and butter" kind. A glance at the two benches fully convinced me that this variety is well worthy of all the space given it. HOMO.

**New CARNATIONS.**

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

**New Chrysanthemums.**

MRS. C. H. PEIRCE—Yellow.  
35c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
54c each, \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List.  
Ready January, 1908.

**F. DORNER & SONS CO.**  
LAFAYETTE, IND.

**Experiences**

... WITH ...

**CARNATIONS**

The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants. I guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.

**ALBERT M. HERR,**  
LANCASTER, PA.

**NEW CARNATION...**

**Empress**

Send for price list of above, New and Standard Sorts...

**WM. SWAYNE, Box 226, Kennett Square, Pa.**

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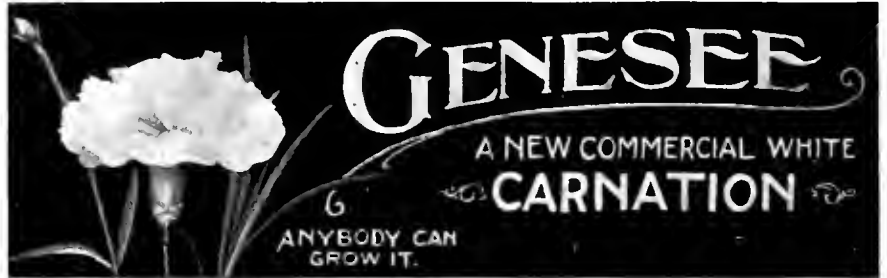
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INCORPORATED

1001 North Dearborn Street

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The habit of growth is attractive.  
It grows healthy and vigorous.  
It transplants very easily.  
It excels also in such qualities as:

**Good Size, Good Stem, Good Calyx,  
Free Blooming, Fine Flowers.**

IT IS OFFERED ON A TESTED REPUTATION.

All about it in a handsome, illustrated and priced 12-page circular Free to the Trade.

**DAN'L B. LONG, Sales Agent, BUFFALO.**

**THE NEW CARNATION Cerise Queen**

The best dark pink we have seen or grown.  
Orders booked now. \$10 per hundred.

**Mayor Pingree FINE STOCK**  
\$5.00 per 100, \$40.00 per 1000.

**JOHN BREITMEYER & SONS,**  
DETROIT, MICH.

**WANTED Carnation growers to look into the merits of  
NEW CARNATION "ARGYLE"**

and be convinced that it is the coming commercial variety of its color.  
READY MARCH 1st. Price, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000.

Send for circular for full description and a select list of money makers in Chrysanthemums.

**STOLLERY BROS., Argyle Park, CHICAGO.**

**CARNATIONS**

STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later

Including Morella, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Person, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**

Lock Box 11. GRAND RAPIDS, MICH.

**CARNATIONS**

FROM SAND OR SOIL

DAYBREAK \$1.25 per 100, \$10.00 per 1000  
TIDAL WAVE 1.50 per 100, 10.00 per 1000  
MCGOWAN 1.00 per 100, 9.00 per 1000  
WM SCOTT 1.25 per 100, 10.50 per 1000

CASH WITH ORDER.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

**BAKER'S NEW CARNATIONS.**

Grown and tested five years.  
ONEIDA—Pure pink, healthy; no rust; continuous producer; largest size bloom.  
RED JACKET—Bright red, fine stem and calyx; continuous cropper. \$10.00 per 100.  
Orders booked now to be filled in rotation as fast as rooted.

**C. F. BAKER, Utica, N. Y.**

SELECT

**ROOTED CUTTINGS**

FROM STRONG HEALTHY STOCK.

**CARNATIONS** Scott, McGowan, Cartledge, Tidal Wave. \$1.50 per 100.

**ROSES** Brides, Bridesmaids, Meteors, \$1.50 per 100.

Very best commercial varieties of 'Mums. Write for prices.

**W. H. GULLETT & SONS, - Lincoln, Ill.**

Say "saw your ad. in the Florist" when you write advertisers.



Worcester, Mass.

We have recovered from the effects of the blizzard and everything is going along smoothly, although the storm was the worst we have had since 1867. Very little damage to greenhouse property resulted. Sargent had a carnation house cave in, and the timely use of considerable propping averted a like catastrophe at Hixon's, but at the other places a few broken lights of glass was the only damage reported.

During the blizzard week trade was at a standstill, but since then we have had good business and plenty of high grade flowers; carnations and violets, especially, are very fine.

February 14 brought us a nice valentine, in the shape of good business. Violets, carnations, valley and lilac were most in demand; and in plants, cyclamen and azaleas had the call.

A visit to W. J. Wood's houses after the storm found everything serene and looking well. Violets are the specialty at this place, and they are looking very fine, with a large crop of blooms in sight. Marie Louise is the variety grown, also a few Lady Campbell, but the darker variety is the better seller. The carnations were also looking well, Nivea and Daybreak are the leaders, and Scott and Alaska are grown in medium quantity. Scott has developed considerable stem-rot and in the opinion of Mr. Wood is running out.

H. Bayersdorfer was in town the other day and paid us a visit. Harry has developed into quite a dog fancier and during his stay here picked up a high-bred dog that has quite a local reputation; "Reuben" out of "Dutchman" by "Filthy Lucre" and of the breed known as "Sooner." Reuben left town with a collar of Bridesmaids and violets, and will make his home in the City of Brotherly Love. A. H. L.

Verbena King

ONE MILLION



to offer the following season in 55 of the latest and best mammoth named varieties in cultivation, free from rust or mildew. Satisfaction and safe arrival guaranteed in every way to all parts of the U. S. and Canada

to 60c per 100; \$5.50 per 1000; 5000 for \$25; 10,000 for \$45; 25,000 for \$100. Express prepaid.

HELIOTROPES, rooted cuttings, 10 named vars., \$1.00 per 100; \$8.00 per 1000. Express prepaid.

CASH PLEASE.

C. HUMFELD, - Clay Center, Kan.

Table with columns: Rooted cuttings, 24-in. Per 100, 24-in. Per 100. Rows include: Roses, Bride and Bridesmaid, Verbena, 12 varieties, Vinca, Mme. Sallerot Geraniums, Ageratum, blue and white, Coleus in variety, Rudbeckia, Abutilon, Solanum (white), Umbrella Plants, Calla Lilies, Parla Dalstes, white, Heliotrope, blue, Begonia Vernon, red.

Stock ready now. Terms cash or approved references. INDIANAPOLIS FLOWER AND PLANT CO., Central Ave. and 34th St., Indianapolis, Ind.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000. NO RUST OR MILDEW. PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

VERBENAS.

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$20.00. New Yellow Marguerite finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

The New Imperial Violet.

Perfectly healthy, very dark green foliage, makes few runners, flowers royal purple, on long stiff stems, exquisitely fragrant, very prolific and the most enormous double flowers ever seen on a Violet. A splendid keeper and shipper; not over two doz sent to any one order. Price \$2.50 per doz. Plants by mail. Address the originator

W. L. MINOR, Brockton, Mass.

Come and see the most superb lot of violets ever grown

GERANIUMS

BEGONIAS

and FUCHSIAS

SELECT NEW and good old standard sorts, the best to be found, up-to-date. 40 Varieties Geraniums, 25 Flowering Begonias, and a good assortment of Market Fuchsias. Let us know what you want and we will quote you prices low enough.

J. NICOL

Oak Street, JERSEY CITY, N. J.

GREEN AS GRASS.

MAMMOTH VERBENAS

Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6 00. Cash with order.

FRANK S. PAYNE, Barnard Crossing, N. Y.

CLEMATIS

Jackmanni, Henryii doz. 100 and others \$3.00 \$20.00. H. P. Roses Strong, 2 and 3 years own roots. \$1.50 \$10.00. RED JACKET GOOSEBERRY, only large native red. .75 \$4.00. DOWNING, best for general crop, special prices.

PAEONIES, fine ass't of colors and kinds \$1.25 \$8.00. SMILAX, extra strong plants. \$2.50

F. A. BALLER, Bloomington, Ill.

PELARGONIUMS

12 LEADING KINDS, \$4.00 per 100.

VERBENAS 25 of the best named varieties, Rooted Cuttings, 60c per 100. Express prepaid. Cash with order.

S. D. BRANT

THE CLAY CENTER FLORIST, CLAY CENTER, KAN.

FREESIA GROWER!

Mammoth and medium bulbs ready June. Also seed of Freesia, Giant Yellow Marguerite, Smilax, Mandevilla, Dahlia, Agapanthus, and Bermuda Buttercup Oxalis bulbs.

J. E. BOYCE & CO.

SANTA MONICA, CAL.

BOUGAINVILLEAS.

Beautiful for "cutting" or pot sale. Free and durable, and blooming for four to six months of the year. Very easily handled and not subject to any insect pests.

Send for "Comments and Facts." THEO. F. BECKERT, Glenfield, Pa. 9 miles below Pittsburg, Pa.

The Cottage Gardens QUEENS, L.I. Specialties in CARNATIONS, CHRYSANTHEMUMS, CANNAS, GERANIUMS, DAHLIAS. SEND FOR OUR PRICE LIST

KLONDIKE

Cold Fields at your door.—GERANIUMS.

Grown in soil in flats, ready to shift into 3-inch pots, \$15.00 per 1000. S. A. Nutt, Beaute Poitevine, Mrs. E. G. Hill, Van Dael and Robt. Brett; the same in 2 1/2-inch pots, \$20.00 per 1000.

Standard sorts, such as double Grant, Bruant, La Fayette, La Favorite, Le Pilot, Gloire de France, Hoff Beech, Wonder, Mrs. J. M. Gaar, Jules Ferry, Contrarian and others \$12.00 per 1000. In 2 1/2-inch pots, \$18.00 per 1000. Mountain of Snow, in 2 1/2-inch pots, \$2.50 per 1000. Mme. Sallerot from flats, \$1.25 per 100 \$10.00 per 1000. Ageratum, blue and white, from flats, 75c per 100 \$6.00 per 1000. Fuchsia, standard sorts, from flats, \$1.50 per 100, \$12.00 per 1000. Feverfew Little Gem, from flats \$1.50 per 100 \$9.00 per 1000. Selection of sorts to remain with us. Cash to accompany any all orders.

Double Petunias, extra fine strain for flats \$1.50 per 100; \$12.00 per 1000. Variegated Vinca, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Antheims, Cineraria, Double Golden Marguerite, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Anthems, Cineraria, Double Golden Marguerite, rooted cuttings \$1.50 per 100; \$12.00 per 1000.

COLEUS, assorted 2-inch pots \$15.00 per 1000; rooted cuttings \$1.50 per 1000; C. Verschaffeltii and Golden Queen, 2-inch pots \$18.00 per 1000; rooted cuttings \$6.00.

J. E. FELTHOUSEN, Schenectady, N. Y.

AZALEA INDICA

We have an immense stock of all the best varieties, extremely full budded, of the following large size: 12 to 15-inch, \$6.00 per dozen; \$45 00 per 100. CINERARIAS, 5-inch, bud and bloom, \$1 25 per dozen. Double Golden Marguerite Cuttings, by mail, \$1.50 per 100.

WHITTON & SONS, Wholesale Florists, City and Green Sts., UTICA, N. Y.

WHY NOT..... Advertise and sell some rooted cuttings or other surplus stock. THIS SIZE "AD." ONLY \$1.00. AMERICAN FLORIST CO., CHICAGO.

GOLEUS... ROOTED CUTTINGS WELL ROOTED

Scarlet Verschaffeltii, Golden Verschaffeltii, Fire King, Fire Brand, Tam O'Shanter, S. P. Gem, Alhambra, Golden Crown, Midnight, Salvator, John Goode Nigger, 15c per doz., 75c per 100; \$5.00 per 1000; express paid.

S. T. DANLEY, Macomb, Ill.

5,000 SMILAX...

From flats, by mail, 50c per 100, \$4 00 per 1000. From 2-inch pots, \$1 50 per 100, \$13 00 per 1000. From 3-inch pots, \$3 00 per 100, \$27 00 per 1000. Send for samples. Cash with the order. FRED BOERNER, Cape May City, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

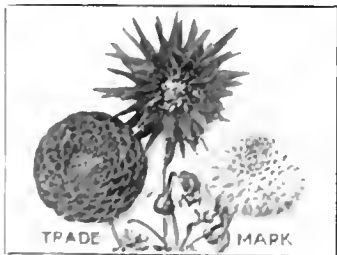
Cincinnati.

The regular monthly meeting of the Cincinnati Florist Society was held February 12 and called to order by President Witterstaetter. The meeting was well attended, and the monthly exhibit brought out a goodly number of visitors, although the attendance at the latter was not as large as on former occasions.

The collection of plants from the city greenhouses were much admired, especially the specimen plants of cyclamen, which were exceedingly well done. Notable at the Sunderbruch collection, were several vases of calla and Harrisii lilies, also some large specimen plants of Kentia and Arenas, their Bridesmaids and Meteor roses were the Creme de la Creme. Messrs. George and Allen made a creditable display of roses and bulbous flowers. Their Valley are surely grand, and several vases of roses deserve special mention. Messrs. Corbett and Wilson took the lead in violets. A vase of the new carnation Empress from Mr. Wm. Swayne, Kennett Square, is a very large and well formed flower, held in a strong calyx, stem eighteen to twenty-four inches, and foliage showing no signs of disease, color a dark crimson. John Young (C. W. Ward), pure white, flower large and full with very heavy petals; the flowers arrived rather poorly. James Dean, (C. W. Ward, Queens, L. I.), deeper than Daybreak in color and a decided improvement over Daybreak, with stiffer stem and larger flower. Mr. Will Murphy made the best general display of standard carnations; Mrs. Geo. M. Bradt being especially fine. A vase of the new rose, Mrs. Robert Garrett, from H. Weber & Son caught the eyes of every visitor.

The sole topic of the evening was the carnation convention at Chicago, and by the time these lines appear, we will know who carried off the plun. It will be a most memorable event to those interested, and no doubt some will go home satisfied, feeling that all went well, while others must be disappointed.

H. SCHWARZ.



30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Box 382, DENVER, COLO.

DAHLIAS WHOLE ROOTS.

Fine collection of varieties including Wm. Agnew, Nymphaea, John Bragg, Ohan, Zulu, Beauty of Brentwood, etc. etc. Our selection, twenty varieties to a thousand, \$50.00. Purchaser's selection, twenty varieties to a thousand \$70.00.

Wm. H. Moon Co.

Glendale Nurseries MORRISVILLE, Bucks Co., PA.

Chrysanthemum  The SENSATION Of the Season.  Frank Hardy

Certified by the committees of the Chrysanthemum Society of America at New York, Chicago, Boston and Philadelphia.

First prize among whites wherever exhibited. The best mid-season white to date and indispensable to every grower whether for exhibition or the cut flower trade. Plants ready March 1st and orders filled in rotation.

Price, per plant, 50c; per dozen, \$3; per 100, \$20; per 1000, \$150. 25 at 100 rate. 250 at 1000 rate.

A. HERRINGTON,

Florham Farms, MADISON, NEW JERSEY.



Two Great Sports

CARNATION

VICTOR

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth. Rooted cuttings now ready, \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

CHRYSANTHEMUM

PENNSYLVANIA

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$35.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

PEACOCK'S PRIZE WINNING DAHLIAS

Did you know that in 1896 Peacock's Dahlias were awarded sixteen (16) first prizes at Philadelphia out of seventeen entries? And at the American Institute, Madison Square Garden, New York, the seven first prizes (all that were offered) and two special diplomas for Clifford W. Bruton and Wm. Agnew? That last year (1897) at New York, they were awarded six of the seven first prizes and The Medal of Superiority of the American Institute, the highest award ever given Dahlias in America? That at Philadelphia—well, we won't say anything, as they were not in competition; but, read what the Philadelphia Record of Sept. 22, 1897, says:

"Prominent above all the other exhibits is that of the Dahlia Society itself. It includes an almost perfect assortment of all the Dahlias known in this country, grown by W. P. Peacock, of Atco, N. J., but it was not in competition for prizes."

New Illustrated Descriptive Wholesale Catalogue now ready; send for it before placing order elsewhere.

W. P. PEACOCK, ATCO, N. J.

"BOSS" Chrysanthemums

WM. H. CHADWICK the grandest white novelty of the season. THE YELLOW FELLOW Winner of \$100 Stearns bicycle prize. MADELINE PRATT "As pretty as her picture." Distributed March 1st by leading firms and the grower, Grove P. Rawson, Elmira, N. Y.

Jardinieres, Pots AND Pedestals



ADAPTED TO Florists' Use.

Artistic Shapes and Decorations.

Write us for Illustrations and Prices.....

BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.

**Buffalo.**

The market seems to be well stocked with flowers and business is quieter than last week, if that is possible. Carnations are plenty and good, the top price being for the new white "Genesee." This carnation is attracting so much attention that I went out to Corfu to see it growing. Scott has a house of it looking A1. It makes a very fine appearance on the bench, being very vigorous and even in growth, with abundant blooms about two and a half inches in diameter, and an average stem of about eighteen inches. It seems to be a continuous bearer, clean and free from disease, and has the ear marks of a "bread and butter" carnation. It is said to be the result of a cross between Daybreak and McGowan, and it resembles the latter somewhat in its manner of opening. Mr. Scott tells me that it is even better with the originators, Harmon & Burr, of Darien, N. Y., than with him.

Scott's house of his namesake is very fine also, and the Daybreaks were in good form. Mr. Scott grows considerable Jubilee and likes it. Portia he has no use for, but is highly pleased with "Dazzle," which is larger and even brighter. Those violets, about which I once made rather disparaging remarks, are looking pretty fair on a close inspection, and are yielding well. A house of *Laetuca scariola*, garden variety, promises an abundance of bloom if it is allowed to mature.

After having inspected everything on the place, from the windmill to the natural gas, we entered the ehariot and drove to Mr. Webb's. Here we found about all the glass given up to carnations, only one house of roses to be seen. Alaska is grown extensively for a white, and is good but rather too short in the stem. The most interesting thing on the place at the present time is a house of a new red seedling—Hector x Spray. It is quite promising. It is a better color than Jubilee, but perhaps not quite as large. Good stem and calyx and apparently a free bloomer. It will be heard from next year. All the old stand-bys are grown here and are looking well.

Mr. William McMillan has just returned from an extended tour through the country to the west of us, having visited Cleveland, Detroit, Chicago, Minneapolis, St. Paul and Louisville.

The latest arrival in town is a son to Mr. Bloy, of Forest Lawn. C.

**Aster, Verbena & Pansy Seed**

Truffant's peony-flowered Perfection, mixed, 1/4 oz. 30 cts., 1 oz. \$1.00.  
 Truffant's peony-flowered Perfection, mixed, in separate colors, pure white, light blue, rose and white, and bright red, 1/4 oz. 50 cts., 1 oz. \$1.50, or 1 oz. of each of the 4 colors for \$5.00.  
 Princess or Snowball (Aster), pure white, 1/4 oz. 75 cts., 1 oz. \$2.50.  
 Mammoth Verbena, 100 colors mixed, 1/4 oz. 30 cts., 1 oz. \$1.00.  
 Mittling's Pansy, large flowering, choice, 1/4 oz. \$1.00, 1 oz. \$4.00.

**PLANTS.**

*Alternanthera aurea* nana and *P. major*, 2 1/4 in., strong \$2.00 per 100 \$15.00 per \$100.  
 800 Robin Hood Carnation Cuttings to spare, strong and healthy, large scarlet, \$3.00 per 100.  
 500 Mrs. Chas. Dufine @ \$4.00 per 100.  
 500 C. A. Dana @ \$4.00 per 100.  
 2,000 Wm. Scott @ \$1.00 per 100, \$7.00 per 1000.  
 5,000 Coleus, 20 choice bedders, 2 1/4 in., \$1.50 per 100.  
*Lycopodium denticulatum*, 2 1/4 in., \$2.00 per 100.

Our Growers' Trade List now ready.

**THE MORRIS FLORAL CO.**  
 Morris, Ill.

Mention American Florist.

**JAPAN LILY BULBS**

IN QUALITY AND CONDITION PAR EXCELLENCE.

Large Direct Importation Just Arrived.

AURATUM		RUBRUM		ALBUM	
100	1000	100	1000	100	1000
8 to 9 inches	\$3.75 \$35.00	8 to 9 inches	\$4.75 \$40.00	8 to 9 inches	\$6.50 \$55.00
9 to 11 "	5.00 45.00	9 to 11 "	6.25 55.00	9 to 11 "	7.50 65.00
11 to 13 "	8.00 75.00	11 to 13 "	9.00 85.00	11 to 13 "	10.00 95.00

**W. W. BARNARD & CO., Seedsmen, CHICAGO.**

**FLOWER SEEDS FOR PRESENT SOWING**

See our "BOOK FOR FLORISTS."

Write for copy if not received.

**VAUGHAN'S SEED STORE**

14 Barclay St., NEW YORK.

84-86 Randolph St., CHICAGO.

**PALM** Seed. FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA . . .	\$1.00	\$7.50	\$20.00
LATANIA BORBONICA . . .	.50	3.00	7.50
KENTIA BELMOREANA . . .	1.00	7.00	20.00
" FORSTERIANA . . .	1.00	7.00	20.00
ASPARAGUS PLUMDSUS NANUS . . .	1.50	12.50	35.00
" CANARIENSIS . . .	1.50	12.50	35.00
" SPRENGERII . . .	1.50	12.50	35.00

**J. L. SCHILLER,**  
 404 E. 34th St., NEW YORK CITY.

WRITE  
**R. & J. FARQUHAR & CO.**  
 SEEDSMEN

16 and 19 South Market Street,  
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FOR THE CHOICEST AND BEST NEW CROP

**FLOWER SEEDS**

Neponset Paper Flower Pots, Pure Sheep Manure, and All Florists' Supplies.

Catalogues mailed free.

**EXTRA CHOICE FLOWER SEEDS.**  
 List free on application.  
**FRED. ROEMER, Seed Grower.**  
 Quedlinburg, Germany.

It will be better for everybody if you mention the American Florist when writing advertisers on this page

Cleveland Florists' Club.

RESOLUTION CONCERNING GOVERNMENT DISTRIBUTION OF PLANTS.

The following was adopted at a meeting of the above club held January 24, 1898:

WHEREAS, The practice of distributing plants and cut flowers, grown at the public expense, has become so general as to amount to an abuse of the public money, paid in part by the florists of the country at large, thereby giving them a direct and personal interest in such abuse of the functions of government, and

WHEREAS, The said distribution works a direct and serious injury to the florists and gardeners of the city of Washington, D. C., by bringing the servants of the government, maintained at the public expense, into direct competition with the said florists of Washington, to the detriment of their business, be it hereby

Resolved, By the members of the Cleveland Florists' Club that the members of the craft in Washington are entitled to the earnest sympathy and support of florists throughout the country, in their fight to overcome this abuse, and that the said Cleveland Florists' Club hereby protests against the misuse of public funds and facilities for the production of plants and flowers for gratuitous distribution in competition with legitimate trades of any description, and the secretary is hereby directed and authorized to forward copies of these resolutions to the congressmen of this district, and to the senators from Ohio, and also the trade papers and to the Commercial Florists' Association of Washington, D. C.

Freesia Bulbs for 1898.

I have endeavored to secure reliable data about the crop of freesia bulbs in Southern California, and can say that there are more freesias planted in this vicinity than ever before. In some places the frost has been so severe as to injure the foliage seriously, while others have escaped entirely. One grower expected to have 2,000,000 marketable bulbs. The frost killed all the growth above ground. To-day I have seen another large lot coming into bloom nicely, and no trace of frost in the vicinity. Had it not been for the cold, freesia bulbs would have been a drug in the market before the season was over. The outlook at present is, if warm weather follows the present run, there will be more than enough to fill all orders, and prices will be lower than last season. Reliable growers will not quote prices now, and guarantee to fill orders, preferring to wait a few weeks and see how growth progresses.

Los Angeles, Cal. D. R. Woods.

NEW FORCING ROSE  
MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, long, fully fragrant, rivaling Bride-maid in color, but larger and much more productive. A sturdy vigorous grower, a money maker and a triumph of American skill. The best form of the country are investing in it. It has won the highest prizes and has excited the most favorable comment from all judges. Price 10 cents per bulb, 25 cents per 100 in lots less than \$5.00 per 1000. Orders packed now, delivery March 1st. Correspondence invited. Address:

H. WEBER & SONS, Oakland, Md.

Rooted Cuttings...

Am. Beauties, Brides, Maids, V. Kaiserin, Perles, Belle Siebrecht, Meteors. Same in 2-in. pots ready Feb. 15th to 20th. Send 50c for samples and get prices.

GEO. A. KUHL, Pekin, Ill.  
Carnation Cuttings ready Feb. 1st.

GRAFTED  
ROSES

MAIDS, BRIDES, METEORS, KAISERIN, HOSTE, MORGAN, CARNOT, Grafted on Manetti and

ONLY TO ORDER.

PRICES: \$15.00 per 100.

No orders accepted after this month.

H. F. LITTLEFIELD, Worcester, Mass.  
Mention American Florist.

New American Rose

MRS. ROBERT GARRETT

As one of the syndicate holding stock in this rose we offer first class plants, from 2 1/2-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$35.00 per 100, \$325.00 per 1000.

AMERICAN ROSE CO.  
WASHINGTON, D. C.

300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers.

Send for prices.

The National Plant Company, Dayton, Ohio.

...ROOTED ROSES CUTTINGS

Carefully packed when sent out. Send for samples...	Per 100		From 2 1/2-inch Pots	
	Per 100	Per 1000	Per 100	Per 1000
AMERICAN BEAUTIES, Rooted Cuttings	\$2.50	\$22.00	\$1.00	\$35.00
BRIDES	1.50	12.50	2.25	20.00
BRIDESMAID	1.50	12.50	2.25	20.00
METEOR	1.50	12.50	2.25	20.00
KAISERIN	1.50	12.50	2.25	20.00
PERLE	1.50	12.50	2.25	20.00

Terms cash with order or goods sent C. O. D. Plants from 2 1/2-inch pots ready March 1.

J. A. BUDLONG, - STATION X, CHICAGO, ILL.

JOHN N. MAY

Wholesale Grower of

Roses,  
Carnations, Chrysanthemums,  
... and Cannas.

All the best new and old varieties in extra selected stock now ready for delivery. Parties wishing to purchase will find it to their advantage to write for special quotations for large orders, to

JOHN N. MAY, Summit, New Jersey.

REINBERG BROS.

WHOLESALE

Growers of Cut Flowers

500,000 FEET OF GLASS. We can fill all orders on short notice with all leading varieties of Roses and Carnations. We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.....

ROOTED CUTTINGS.

ROSES.

Bridesmaid	.....	
Brides	.....	\$1.50 per 100.
Perles	.....	\$12.50 per 1000
La France	.....	Cuttings.
Meteors	.....	
Kaiserin	.....	

CARNATIONS.

William Scott	.....	
Nancy Hanks	.....	
Tidal Wave	.....	\$1.00 per 100.
Portia	.....	\$7.50 per 1000
Mrs. McCowan	.....	
Kohinoor	.....	
Mrs. Thompson	.....	
Daybreak	.....	
Emma Woche	.....	
Meteor	.....	\$1.50 per 100.
Goldfinch	.....	\$12.50 per 1000
Lizzie Gilbert	.....	
Harrison's White	.....	
Brideamoid	.....	
Nivea	\$3.00 per 100; \$25.00 per 1000.	
Jubilee	\$2.00 per 100; \$15.00 per 1000.	
Flora Hill	\$4.00 per 100; \$35.00 per 1000.	

No order for less than lot of one variety accepted.

FINE ROSE PLANTS

Out of 2 1-2 Inch Pots.

	Per 100	Per 1000
Meteor	\$3.00	\$25.00
Perle	3.00	25.00
Bride	2.50	22.50
Bridesmaid	2.50	22.50
La France	2.50	22.50
Kaiserin	2.50	22.50

Ready for shipment March 1st.

Reinberg Bros.

51 Wabash Avenue,

CHICAGO.

When writing mention the American Florist.

Cleveland.

Flowers are now coming in a little more plentifully. The quality also shows an improvement in most instances. Business has been very fair on the whole, although we have, within the last day or two, seen the first of the "fire sales" that usually are delayed until near the advent of lovely spring. There has not been until now sufficient difference between supply and demand to encourage many ventures in that line.

The weather has again moderated from the stiff temperature of a week or two ago, and is reasonably mild.

Harrisias seem still to be in rather short supply, at least from local sources. At this writing it is impossible to find out just who and how many will go to the carnation exhibition at Chicago. There will probably be half a dozen or so, may be more if all who have made threats in that direction carry out their intentions.

E. J. Paddock, W. H. Beaumont and Chas. Erhardt must abandon their present quarters on Erie street to help make room for a ten-story business block, the erection of which will begin about April 1. A.

Fern Notes.

Doryopteris Divali appears to be a very distinct and useful variety. In habit it somewhat resembles D. nobilis, but is devoid of the pale silvery grey variegation, the fronds being of a uniform deep green, with a bright surface. It seems likely to prove much less difficult to manage than nobilis. I find plants may be divided and do not suffer, that is if they are carefully handled, and it is altogether a most vigorous grower. I am not yet able to say if it will come true from spores, but if it does no doubt it will soon be among our most popular market ferns.

There are few more strikingly distinct ferns than D. nobilis, and this may be raised from spores, though I have never seen any large batches. A friend of mine showed me a fair batch of seedlings a year or so ago, but although they had every attention most of them perished during the winter.

D. ludens is a distinct and desirable species, the broad deep green fronds of young free growing seedlings show up so well among other ferns. After the plants get older and begin to throw up fertile fronds, which are divided almost as much as in D. palmata, and have long stipes, the broad basal fronds begin to go off, and it is difficult to keep plants in good condition, but as spores germinate freely young plants may always be had to succeed those that have become shabby.

D. palmata is more generally grown for market, and makes a useful plant; it well repays for good treatment. It is one of those ferns which, if kept in good health, will give little trouble, but if once it gets stunted or sickly the stock may as well be thrown away, for they never seem to make a good start again.

D. pedata, somewhat after the same habit, but of smaller growth, is worthy of culture where a collection is grown.

D. sagittifolia and D. hastata are also worthy of note, but the last named varies very much when raised from spores.

All those referred to above succeed best when grown in a moderate stove temperature; they like more shade than we give most ferns, and a light compost. Although I do not find it necessary to use peat for most ferns of the Pteris section, I find all the above do better in a compost consisting of about one-third peat, though where really good leaf mold can

be had peat may be dispensed with, good fibrous loam and sand with a little well rotted manure will make up the remainder of the compost. Over potting should be avoided, but when the pots are filled with roots manure will prove beneficial. A close moist atmosphere is desirable, but the fronds should not be wetted overhead, and during the winter, if cold water drips from the roof, it will discolor the fronds; this causes much mischief among many ferns, particularly lomarias.

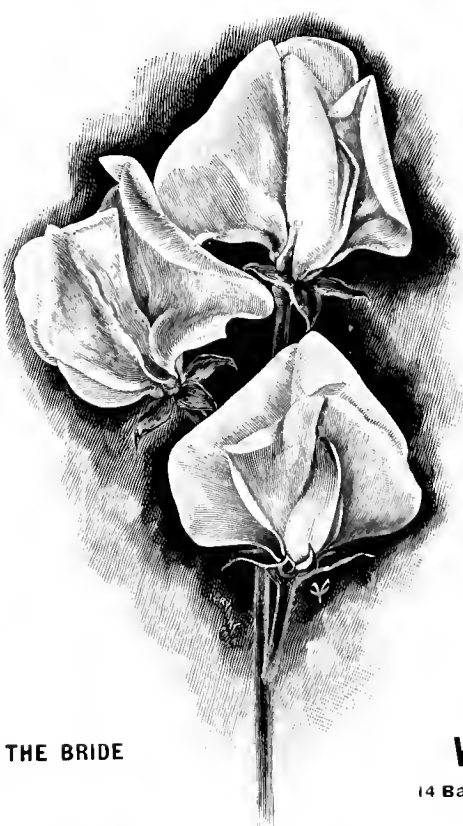
I may here mention that we seem likely to get Lomaria ciliata major true from spores, having raised a number of seedlings which already begin to show character, but it is too early to determine positively what they may develop into.

L. ciliata grandis, another fine variety raised at the same time as major has not

proved so productive, though among seedlings raised we may yet find some of the true variety. I am not sure if I have referred to these lomarias before. I may say that grandis received a first-class certificate and major an award of merit from the Royal Horticultural Society, and were raised by Mr. H. B. May. If we can only get seedlings to come as good as the parent plants they will be welcome additions to our market ferns.

A. HEMSLEY.

BUCKSPORT, ME.—Everything is buried deep under the snow, the average depth of which is three feet. The storm of last week was the heaviest for a quarter of a century and only the most vigorous measures saved the greenhouses from ruin.



NEW SWEET PEA ...The BRIDE

Originated by M. Lynch, Menlo Park, Calif.

THE BRIDE This beautiful large, white-seeded variety is the best White Sweet Pea to date. It is a pure white selection from Mrs. Eckford and is the strongest germinator among all the white-seeded varieties—so, often poor growers. Grown for the cut-flower market of San Francisco in competition with the other high class whites, it has brought the highest figures over them all, taking first rank among all the whites. The flowers are pure white of fine substance, large and of true grandiflora type. Beside this every seed will grow. Perfect flowers were cut as early as April 16 last year. Price, per lb., \$2.00; 1-4 lb., 60c; oz., 20c; pkt., 10c.

The Cornell Bulletin in naming the best Sweet Peas of each color, classes The Bride first as a white, with Emily Henderson second and Blanche Burpee third.

Frank Pelicano, a leading florist of San Francisco, stated: "We can sell more Bride Sweet Pea blooms than those of any other variety which we have ever handled."

Prof. Tracy, in a recent review of some of the newer Sweet Peas says: "The especial merit of this variety (The Bride) is in its length, strength and grace of flower stem, and the disposition of the blooms thereon, being one of our best sorts in these respects, and forming an exceedingly graceful bunch."

Mr. Lynch has sent us his entire stock which we offer to the trade as above.

VAUGHAN'S SEED STORE,

14 Barclay St., NEW YORK.

84 & 86 Randolph St., CHICAGO.

THE BRIDE

SOW NOW

- CRIMSON GEM
CORAL GEM
DUCHESS OF EDINBURG
MIXED

BEGONIAS of the Semperflorens type, of which "Vernon" is a shining example. We have some improvements upon the good old Vernon that we desire everybody to try. Here they are:

One of the most effective Begonias of the Semperflorens type; excellent for bedding; the flowers are of a rich red, and the foliage crimson bronze. \$1.00 per trade pkt. .... 50c per half trade pkt

A distinct and attractive flower of a pale rose or peach color. The habit of the plant is remarkably good, and the plants bloom profusely. \$1.00 per trade pkt. .... 50c per half trade pkt

An exceedingly beautiful and profuse blooming Begonia. The plant is robust and has proved to be almost a continuous bloomer. Flowers white, suffused with pink, and twice the size of the ordinary B. Semperflorens. \$1.00 per trade pkt.; 50c per half trade pkt

\$1.00 per trade pkt. .... 50c per half trade pkt

This is American saved seed, and the germinating tests are most satisfactory. It comes up quickly and the little plants grow with great rapidity. Seed sown now will make fine plants for Spring sales. Order at once, and a leaflet "How to Grow Begonia Semperflorens from Seed" will be sent with each order.

Cash with the Order. Money Order P. O. Station H.

A. H. LONSDALE & CO., Specialists, PHILADELPHIA, PA.

Catalogues Received.

W. W. Rawson & Co., Boston, Mass., seeds; Vaughan's Seed Store, Chicago, Ill., seeds; D. Landreth & Sons, Philadelphia, Pa., seeds; B. O. Curtis, Paris, Ill., trees, shrubs and fruits; W. W. Barnard & Co., Chicago, Ill., seeds; Buell Lamber-son, Portland, Ore., seeds; Theodosia B. Shepherd, Ventura-by-the-Sea, Cal., seeds; John N. May, Summit, N. J., plants; L. L. May & Co., St. Paul, Minn., seeds; A. W. Livingston's Sons, Columbus, O., seeds; W. Atlee Burpee & Co., Philadelphia, Pa., seeds; Phoenix Nursery Co., Bloomington, Ill., trees, shrubs and plants; Isaac C. Rogers, Danville, N. Y., fruits; Schisler-Corneli Seed Co., St. Louis, Mo., seeds; W. N. Scarff, New Carlisle, O., fruits; Carpenter & Son, State Line, Miss., trees, shrubs and fruits; Japanese Nursery, Boston, Mass., trees, plants and bulbs; Wm. E. Hand, Jr., Argos, Ind., fruits; E. Gill, Oakland, Cal., trees, shrubs and fruits; E. E. Burwell, New Haven, Conn., seeds; S. T. Walker, Forest Grove, Ore., seeds; J. E. Jackson, Gainesville, Ga., plants; E. J. Hall, Olyphant, Pa., fruits; J. L. Schil-ler, New York, seeds; J. C. Sullern, Voor-ries, Ill., seeds; R. Witterstaetter, Sedams-ville, O., plants; Theo. Bock, Hamilton, O., plants; J. R. Johnson, Dallas, Texas; fruits; A. B. Davis & Son, Purcellville, Va., roots; D. M. Andrews, Boulder, Col., seeds; Vilmorin-Andrieux & Co., Paris, France, seeds; Chicago House Wrecking Co., Chicago, Ill., building materials; Page Woven Wire Fence Co., Adrian Mich., wire fences; A. Branson, New Sharon, Iowa, fruits; Mark H. Wetherbee, Charles City, Iowa, plants and seeds; Chesmore-Eastlake Mercantile Co., St. Joseph, Mo., seeds; J. Whittier, Beverly, Mass., plants.—100.

**Hot-Bed**

# Sash.

Tenons white-lead. Corners se-cured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**

We have in stock and can ship immediately:

3	ft. x 6 ft.,	3 rows	10 in. glass.
3	ft. 3 in. x 6 ft.,	4	" 8 in. "
4	ft. x 6 ft.,	5	" 8 in. "

Not glazed, 1 3/4 in. thick.

**Delivered Prices**

Quoted on application. State size and quantity wanted. No order too small to receive careful atten-tion, and none too large for our facilities.

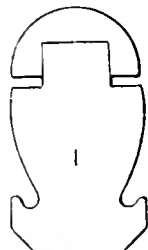
**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.

Established 1859.

## Thos. W. Weathered's Son

HORTICULTURAL ARCHITECT  
AND BUILDER.....

Greenhouse  
Wood-work.  
Greenhouse  
Iron-work.



Red Gulf  
Cypress  
free from  
Sap.

Get my prices on everything needful for the erection or repairing of Greenhouses.

**A**ND send four cents in stamps for my latest catalogue, circulars, etc., showing the best and most economical

**B**OILERS for heating, from the smallest self-feeding for small conservatories, stores, etc., to the largest sectional for large commercial establishments or Public Parks.

**C**YPRESS greenhouse material free from sap, of all sizes, shapes, etc., as desired, from the smallest sash-bar to the largest sill-plate. Clipper sash-bars as well, kept in stock ready for shipment.

**D**OORS of the best clear Cypress made especially for greenhouse purposes always in stock.

**E**AVE Plates of Cypress, the very best; all shapes, as well as Sills, Ventilating Sash, Ridge, Ridge Cap, Gutters, Purlins, Headers, etc.

**F**ITTINGS of every kind, from the smallest for Purlins, to the largest for a heavy 4-inch Greenhouse Pipe, also Valves, Expansion Tanks, etc., always ready for shipment.

**G**UTTERS of cast iron or of clear Cypress, for outside "Ridge and furrow" houses, or any and all kinds. Glazing Points of all kinds from the patent to the zinc nails.

**H**EATING. After forty years' experi-ence, devoting it all to the heating of greenhouses, from a small conservatory to the largest, such as the Schenley Park Greenhouses at Pittsburgh, Pa; Central Park, New York City; Druid Hill, Balti-more, Md; Prospect Park, Brooklyn, N.Y., as well as supplying complete heating plants in England and Japan, that you can have sufficient confidence to expend two cents in a stamp and time writing me your wants in that line.

**Thos. W. Weathered's Son** 141 Centre St. NEW YORK.

THIS IMPRINT ON AN ENGRAVING

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IS A GUARANTEE OF SATISFACTORY QUALITY.....

*Manz makes illustrations for this paper*

## Boilers

OF HIGH GRADE..

For GREENHOUSES.

See our Catalogue. ....

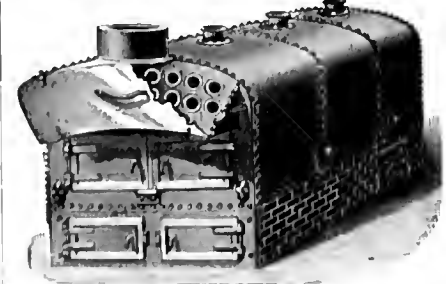
Steam and Hot Water Gible & Co., Utica, N. Y.

## KROESCHELL BROS. CO.

IMPROVED

# Greenhouse \* Boiler,

29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information. Mention American Florist.

**NEW & SECOND-HAND MATERIAL,** purchased from Sheriff Receiver, and Assignee sales at less than one-half prices. Pipe and Fittings, Hose, Electric Wire, Hot Water Heaters, Greenhouse Boilers and Engine Hoses, Light Wrought Iron Pipe, Glass-panes and thousands of other articles, for sale by

**CHICAGO HOUSE WRECKING CO**  
Largest Mail Order Depot for New and Second-Hand Material in the World  
W. 35TH & IRON STS., CHICAGO.  
Write for our free illustrated catalogues

**THE ESLER HOSE IS THE BEST**

It is used by the leading Florists and is giving satisfaction. Try it and be convinced. For price Address.

**J. G. & A. ESLER,** Saddle River, N. J.

YOU CAN SAVE MONEY BY HAVING ME

## BUILD AND HEAT YOUR GREENHOUSES

**HENRY W. GIBBONS** 134-136-138 LIBERTY STREET, NEW YORK.

EXPERT ADVICE AND PLANS FURNISHED. ESTIMATES FREE.

Youngstown, O.

"Roses" was the subject of a very entertaining chat with Mr. Hippard during my recent visit. It is his unqualified opinion that any man can grow roses, if he knows "how."

"How?" I asked naively. "Yes," replied mine host, "in the 'how' lies the whole secret of the successful rose grower," and assuming his inimitable smile he continued, "healthy young stock planted in the right soil at the start, with an even temperature, proper ventilation, and above all constant care and attention will insure dollars and cents in the end."

A stroll through the houses sufficed to convince the scribe that the Meteors, Brides, Bridesmaids and Perles were dollars in disguise, every one of them, and of the kind that would pass in all markets at their full "par value" with no discount. As a rose grower Mr. Hippard is pre-eminently successful, and whether it be in the soil or in the method of growing the results are most gratifying.

I may mention in passing that I noticed several houses devoted entirely to 2 1/2 and 3-inch pot stock.

Nor do his carnations take a back seat. Flora Hill is no exception to her general rule, that is, to do well wherever planted. Lizzie McGowan, though relegated to a second place in the category of whites, still seems to be holding her own, and is doing nobly. As to the other varieties which I noticed, such as Scott, Daybreak, Jubilee, etc., all are in the best of condition, showing no set back of any sort.

Market conditions are favorable, and business shows a steady improvement. From the inquiries which Mr. Hippard receives regarding ventilating machines, one may easily infer that the "boys" throughout the country contemplate making extensive additions during the coming spring. The more the merrier.

Номо.

Los Angeles, Cal.

California recently celebrated the fiftieth anniversary of the discovery of gold. At present the entire state is rejoicing over a gentle rain which if continued for several days and then followed by warm weather will make the whole state a veritable garden of flowers.

Last year at this time carnations were in heavy supply and retailed at 15 cents to 20 cents per dozen; now they are selling at 35 cents to 50 cents per dozen. Roses have likewise advanced from 50 cents per dozen until now the choicest are being sold at \$4.00 per dozen. The demand for choice flowers is very good and much more "house-grown" stock will be prepared for next winter than heretofore.

Large shipments of trees are being made from the state forestry stations near Santa Monica and Pomona. The railroad companies are expected to report how the different varieties grow under the varying conditions. Such reports to be for the benefit of future planters.

W. W. Perkins, El Modena, has made another large shipment of 15,000 field-grown roses to the Jackson & Perkins Co., of Newark, N. Y.

H. J. Vatcher, formerly with the Packard Floral Co., is now assisting R. G. Frazier in making millionaire Ladd's home place the finest in Pasadena.

Henry Feder, proprietor of the Redondo Nursery, has a little Klondike of his own. Mr. Feder has four acres in carnations, and as frost touched him but very lightly he is now reaping a rich harvest.

Mr. E. Walker has twenty-five acres devoted mainly to bulbs and flowering plants. He has been making heavy sales of Roman hyacinths, field-grown, and now is ready to furnish everybody with narcissus.

Howard & Smith, though but a young firm, and composed of young men, have already a reputation extending to Europe. They are now shipping choice cactus in large lots to Germany.

The Packard Floral Co., of Highland Park, have issued a finely illustrated pamphlet showing views of the interior of their model place.

The conservatories in East Los Angeles park are well filled with choice plants. The display of orchids, hyacinths and other blooming plants is very creditable and draws hundreds of visitors every day, while on Sundays they are simply crowded.

Alfalfa seed is now grown largely in this state, one thresher has just cleaned 14,000 pounds.

S. P. Rees, 222 S. Jefferson street, is having plans made for a greenhouse to be used largely for experimental purposes. D. R. W.

Leavenworth, Kan.

Fire destroyed the greenhouses and residence of Kirkpatrick Bros., of this city, last week. Owing to the bad roads it took the fire department fully half an hour to reach the scene of the fire. The loss is estimated at \$7,000 or \$8,000, and not a dollar's worth of insurance.

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# Kraft's Plant Tonic

## For PLANTS, PALMS and FLOWERS

...A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale...

This is one of the greatest preparations for the use of Florists and Plant Growers ever compounded. It gives to the foliage of plants treated the bright, fresh color of healthy, growing vegetation. It destroys all insect life infecting the plant and eradicates scale.

Besides improving the color of the plant, it effects a general betterment of its condition, aiding nature in disseminating and retaining the sap and life of the plant. The Tonic makes the foliage of the plant soft and pliable, and a beautiful bright green.

For sale at

Price per bottle, 25 cents.

84 & 86 RANDOLPH STREET, CHICAGO.

VAUGHAN'S SEED STORE,

14 BARCLAY STREET, NEW YORK.

Omaha.

Negotiations for floral displays at the Trans-Mississippi International Exposition are now complete.

The horticultural building is already under way, and will be ready for occupancy by the middle of April. It is considered by far the most artistic building on the grounds with the exception of the government building.

Prof. F. W. Taylor, Superintendent of the Bureau of Agriculture, Horticulture and Forestry of the Department of Exhibits, has arranged for many interesting floral features. One of the most striking spots will be the aquatic basin just north of the horticultural building. This basin has already been excavated, and is about 100 feet in diameter and about four feet deep in the center. Henry A. Dreer has agreed to take full charge of this basin, and will fill it with aquatics.

The grounds about the buildings on this tract will be laid out in flower beds, and these will be taken in charge by the prominent plant men of the country.

J. C. Vaughan will exhibit caladiums, coleuses, roses, pansies and gladioli, but it is probable that his canna beds will be the center of attraction. F. R. Pierson & Co., The Lovett Co., A. Blanc, W. Atlee, Burpee and Peter Henderson will also exhibit largely. The latter expects to have some experimental plots of grasses.

The Division of Agrostology of the United States Department of Agriculture also propose to put in from one-half to two acres in grass seeds. L. D.

Sharon, Pa.

There is something fascinating about a seedling; and the more so if it has some good points in its favor. Uncle Harvey, a scarlet one grown with marked success by Mr. John Murchie, is a new debutante and from all appearances it has come to stay. Portia in color, Jubilee in size and Scott as to freedom of bloom—these are its chief traits. A second seedling, a cross between Helen Keller and Meteor, looks equally promising and as a "fancy" carnation will no doubt take place in the front rank.

Seedlings, seedlings and seedlings! This will about describe the sight I beheld at Florist McConnell's place. His white one, designated as 19A, is a fine specimen of its kind. The bloom, calyx and stem are all that could be desired, and as a commercial variety it may well vie with the best of the standard sorts extant. 5B and 5C, both good pinks, seem destined to make their mark. The average size of the former is from two and three-fourths to three inches.

Carnations, however, were not the only flowers that attracted my attention. To say that Mr. Murchie has "some idea" of growing orchids, would be expressing it in his own modest way. If his own *Corlogyne cristata*, *Lachia anceps*, *Phaius grandifolius* and *Dendrobium phalaenopsis* may be taken as a criterion to judge by, I would rank him among the best orchid growers in the land. His orchids are well worth seeing.

The anticipated pleasure of seeing the genial Mr. F. M. O'Brien has been doomed to disappointment. It was a case of being confined to his bed with a spell of "under the weather" ailment. The usual welcome was extended to your correspondent by his obliging foreman and a stroll through the houses was in no wise disappointing. His general stock is in splendid condition.

Business ahead of last season is the general report. HOWARD

SEND FOR FLORISTS  
PRICE LIST AND  
CATALOGUE

FREE UPON  
APPLICATION



TRADE MARK

## HOT WATER HEATERS AND STEAM BOILERS

*THE STANDARD OF EXCELLENCE  
FOR THEIR RESPECTIVE REQUIREMENTS.*

### GURNEY HEATER MFG. CO.

163 FRANKLIN ST. BOSTON, MASS. NEW YORK CITY BRANCH, 48 CENTRE STREET

## SYRACUSE POTTERY CO. Flower Pots,

•••• MANUFACTURERS OF  
**Bulb Pans, Hanging Baskets and Saucers**

OUR FLOWER POTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Porc Pot." They are more porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

SYRACUSE POTTERY CO.

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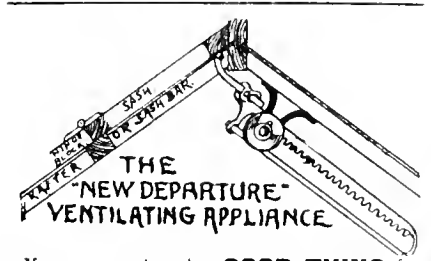
Had I been reminding you last October, you would have been advised to secure a number of plants of *Dentzia gracilis*. Good strong roots usually fill 5 or 6-inch pots, and they should be packed in a cold pit, bringing a few into heat each week, as they are required. The number depends on the size of your business.

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The first warm day take a careful look at your fall planting of pansies, if they are O. K. shut them up and leave well enough alone for six weeks, but if you find the field mice or some other cause has destroyed many sow more seed at once.  
C. B. W.

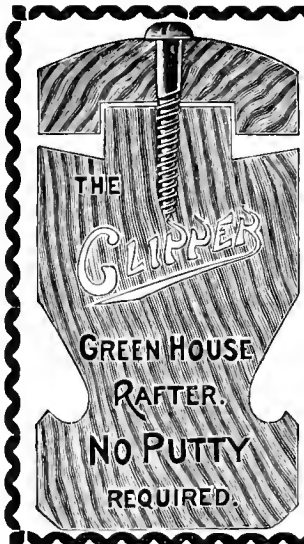


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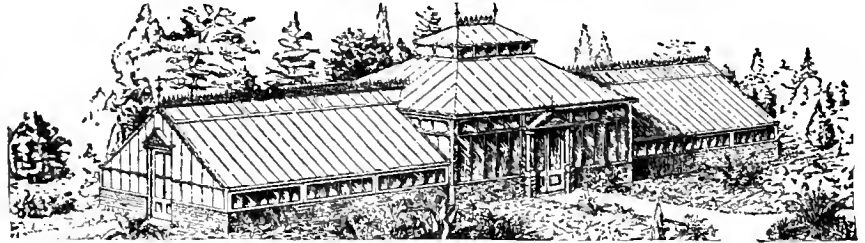
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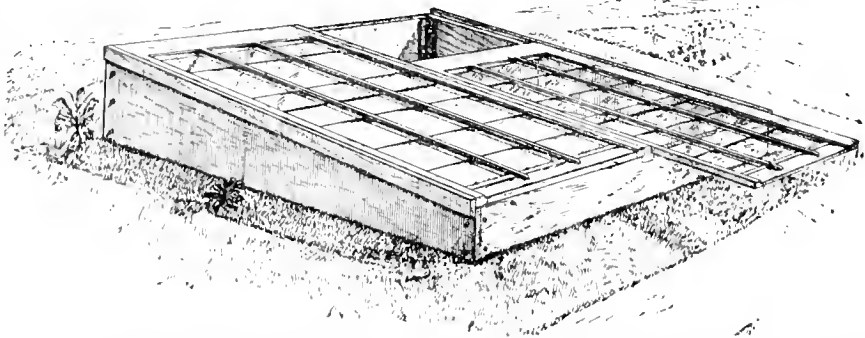
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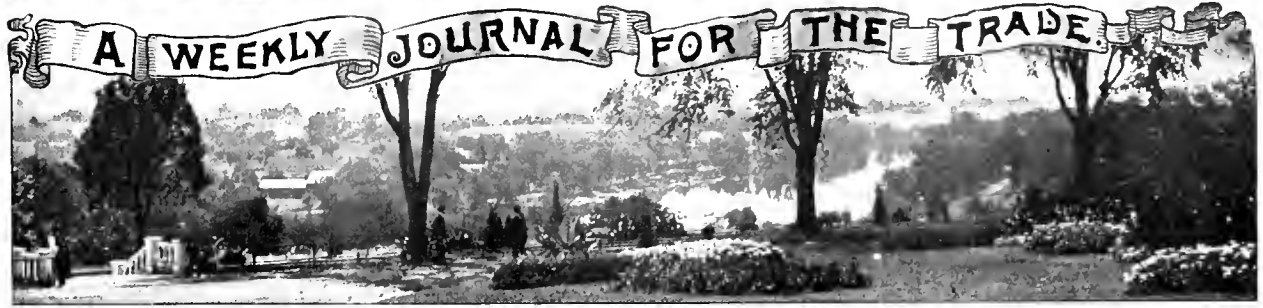
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Vol. XIII.

CHICAGO AND NEW YORK, FEBRUARY 26, 1898.

No. 508.

## THE AMERICAN FLORIST

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### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HEHR, Lancaster Pa., Secretary.

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WILLIAM NICHOLSON.

President-elect of the American Carnation Society

### AMERICAN CARNATION SOCIETY.

#### Moisture the Plant's Greatest Requirement. BY PROF. J. C. ARTHUR.

That which is most common usually provokes least attention. The fact that water is connected with all kinds of life, that it is a universal solvent, and that it is taken up freely by organisms, and evaporated from their surfaces in large amounts, encourages indifference toward the subject rather than excites interest. Water hides under no disguises; it is always separable and recognizable; it does not partake of the mysteries of the food supply.

The man who undertakes to protect plants from the accidents of outdoor life by housing them under a canopy of glass, becomes the step-parent to nature, and will succeed best when he most fully understands the needs of the charges entrusted to his care. It does not follow that the greenhouse cultivator is to imitate nature in her methods of supplying the wants of the plant; more economical, more direct, and more efficient methods are often possible, and in fact are often necessary to secure commercial success.

Because out of doors it rains on the just and unjust alike is no reason why the florist should drench everything within his houses daily. Overhead watering under glass may be a good imitation of

nature, but it is not necessarily the way to bring about the result the florist has in view, healthy plants with a maximum development of flowers. The watering-pot and its substitute, the spray nozzle, are to be considered primitive implements, which are to be laid aside as soon as improved methods can be devised. A move in this direction has been made by carnationists in using a modified nozzle and applying the water to the soil without wetting the foliage.

It is because the carnationists have shown themselves progressive, and willing and ready to test promising innovations, that I venture to advocate to-day a radical change in watering the greenhouse, and one that requires some expense to inaugurate. I remember with pleasure the reception of my paper before this society at its Buffalo meeting, in which I suggested watering carnations between the rows and keeping the foliage dry as far as practicable. Although the wraith of the red spider seemed to hover over the assembly and threaten grave disaster to such a course, yet the suggestion was tested, approved, and under various modified forms became a part of standard carnation culture. I now come before you to advocate watering the benches from beneath the soil and practical abandonment of surface watering and spraying. It has sometimes been called sub-irrigation, but a better term is sub-watering.

The essential feature of this method, which was originated at the University of Ohio and has been tested in a number of places for various glass-grown vegetable crops, consists of a water-tight bench with a layer of open material on the bottom through which water moves readily, and the filling of the bench completed with soil in the usual manner. The bench is kept moist by supplying water to the porous layer beneath, from which the soil takes it by capillarity. No water is applied directly to the soil, and all use of the nozzle is done away with. Before giving the working details of this method, I wish to call attention to some of the reasons why watering plants should be considered a matter of great importance and worthy of the most careful study.

In the first place every plant, generally speaking, consists of three parts of water to one part of all other kinds of substances. This proportion is quite universal for all living things. It is equally true of trees, grass, mosses and molds. It also holds for animals. A cabbage plant and the body of a dog do not vary much in the proportion of water to solids.

Immature organs contain more water than when matured. Although the water in a whole carnation plant, roots, stems,

leaves and flowers amounts to about 75% of the total weight, yet in the young shoots, such as would be suitable for cuttings, it rises to 90%, and in the half formed leaves is even greater yet. It we remember that the chief growth of the plant takes place in the parts where the largest amount of water occurs, we shall be reasonably safe in inferring that water is a very essential factor in growth.

It has been ascertained, in fact, that the tissues must not only be saturated with water, but they must be super-saturated, that is, contain so much water that every cell is distended with the pressure, before growth will proceed. Each cell must be stretched by the internal pressure of the water, as a toy balloon is distended by the air forced into it. It is this by no means inconsiderable tension that renders young parts firm and brittle, and when it is removed they wilt. No appreciable growth can take place in leaves and stems that are wilted, or in a wilted condition. In the carnation the cell structure is so compact and the walls so rigid that the loss of water is often very considerable before visible wilting takes place. At this point lies a danger, for the plants may suffer for water for some time before the attendant notices their condition. With ideal treatment the plants should never wilt, and never lack for water to enable them to grow.

Not only must a certain amount of water be present in the plant to secure its active development, but a stream of water must be passing through the plant constantly, from the roots to the leaves. This upward flow of water is essential to most plants. It is the means of taking in the various fertilizing materials, or food substances, from the soil and transporting them to the upper parts of the plant, where they enter into the solid structures forming the tissues. The root hairs on the fine roots suck in the soil water, and its burden of nutritive material and force it forward into the larger roots and the stem, with pump-like activity, so long as water is available. The leaves dispose of the water by allowing it to escape from their surfaces as an invisible vapor, leaving behind all substances held in solution.

In some instances the water passes out through any part of the surface, but there are always stomata, minute openings, sometimes called breathing pores, which permit it to escape much more readily. The carnation has the surface of all green parts, both stems and leaves, overspread with a layer of white wax, which is impervious to moisture. All transpiration must therefore be through the stomata. These openings are very numerous, there being from one to five hundred thousand on every leaf. Unlike most plants, the carnation shows no material difference in the minute structure of the upper and lower surfaces of the leaves. They contain no spongy tissue, and have the stomata distributed evenly throughout both above and below. If one holds a leaf through glasses that magnified as much as a common microscope, one leaf would appear to be thickly studded with round openings, like little wells, and peering into one, some way below the surface would be seen a small hole, which automatically opened and closed, as the lips open and shut, to permit or prevent the passage of water into the mouth. These are the guard cells, and when they are closed, no water can pass out or in. These guard cells are not only closed, but the stomata are closed, and the plant wilts.

This is a fortunate arrangement, for it tends to prevent loss of moisture at a time when the roots for some reason are no longer able to supply the needs of the plant. The second condition closing the stomata, is when water is dashed over the plant. A drop falls into each opening and causes the guard cells to swell until they effectually fill the passage. It matters not how much water the roots are taking in at the time, the whole water system of the plant is clogged and development is retarded.

Sometimes the movement of water through the plant is stopped, even when the stomata are open; for when the atmosphere is saturated it is evident that evaporation from the plant must necessarily come to a standstill. Perfect saturation of the atmosphere is probably rare even in a closed greenhouse, but partial saturation must in a measure check the internal water stream, and in so far must be detrimental to the best development of the plant.

If there is anything that the structure of the carnation plant and the known function of the organs clearly teaches, it is that there should be a never failing supply of moisture for the roots, and a fairly dry atmosphere for the foliage. I venture to say that these conditions can not be better met than by sub-watering. The present method of surface watering, even when most skillfully done, probably never gives the plants the full amount of water they would use. The soil is alternately too wet and too dry, and besides often suffers from a lack of water at the bottom of the bench although the surface seems wet enough. The difference between the amount of growth when an ample and constant water supply is provided, and that secured from the usual surface method of watering is always a source of astonishment when fairly tested and the results clearly set forth. I have no data to present in growing carnations by the new method of sub-watering; and will not detain you with figures taken from crops of vegetables. But that the carnation will respond to this method as have other plants, there can be no doubt.

One other point needs mention in this connection. The physical character of the soil has much to do with successful cultivation. Some writers maintain that it is quite as important an item as the food supply. With sub-watering the soil remains light and friable, readily permeated with oxygen from the atmosphere, easily penetrated by roots, and at all times in the best of condition for serving the plant. The soil of the bench once suitably prepared for the reception of the plant remains so, or even improves on account of the upward movement of the water through it. This is in marked contrast to the compacting that follows every application of water to the surface. Surface watering drives out the air from the soil at each watering, keeps the upper layers wetter than beneath, and makes it difficult to provide for the needs of the deeper roots.

Beside the advantages in sub-watering, which I have mentioned, there are others which are incidental features, but by no means unimportant. One of these is the freedom of the surface of the soil from weeds, moss and slime. The surface layer can even be kept quite dry, and act as a mulch, if desired, and at any rate it will be the driest soil in the bench. The dryness of the surface of the benches, and of the air throughout the greenhouse, will have a marked effect in preventing and holding in check all kinds of parasitic diseases, both fungous and bacterial, a

desirable result that the carnationists are fully able to appreciate. The causes which prevent the inroad of germs, promote the functional activity of the leaves on the lower parts of the plant and they remain green and healthy much longer than usual, greatly to the advantage of the plant.

It is evident that the writer believes that the proposed system of sub-watering is in many ways a good thing, and nowise injurious. He also believes that it can be made commercially profitable. The trial bench at the Indiana Experiment Station, which has been in use two years, chiefly for lettuce, is fitted with a water-tight lining of zinc, on which soft building brick are placed edgewise, their lower angles having been chipped off to permit freer movement of water between them. On this layer of brick the soil is placed in the usual manner. The water is run into the bottom of the bench through vertical tubes at intervals along the front, and at the rear overflows are provided at an inch above the bottom to guard against accidental flooding. Gauges, consisting of a simple bent tube, show when the water is exhausted. The bricks take up the water, and pass it on to the soil above, slowly and uniformly. By running a water pipe along the bench opening into each vertical tube, the whole bench or the whole greenhouse, can be watered at once by turning a single stop-cock, and thus do away with one of the time-consuming features of greenhouse work. Whether this be the best way in which to provide for sub-watering, time will reveal; but it is efficient, lasting and not expensive beyond profitable returns.

I have pointed out that the plant's greatest need is water; that three-fourths of its substance is made up of water; that it directly controls growth by maintaining internal pressure; and that a constant stream through the plant is required for healthful development. I have called attention to the disadvantages in supplying the plant, especially carnations under glass, with water in the usual manner, and not wishing to be opprobriously called a theorist, lacking practical ideas, have pointed out a better method, which has had some preliminary trial. I shall feel that I have not misjudged the importance of the matter to commercial growers, if any members of this society should find it profitable to make practicable application of the suggestions of the paper.

#### The Banquet.

The Egyptian banquet hall of the Auditorium hotel was prettily decorated for the banquet tendered the American Carnation Society by the local florists on the evening of February 18. Groups of palms were placed at the entrance and other portions of the room, with large vases of carnations at the base.

The main table was decorated with a plateau of single narcissus, edged with tulips and large trumpet-shaped vases of Jubilee, Mayor Pingree, Mrs. McBurney and Bridesmaid carnations. Long-stemmed American Beauties were laid on the table, the flowers and foliage covering the table and hanging over the edge. There were four tables extending from the main one, and they were treated in different colors, one with plateau of Brides and vases of Flora Hill carnations, one with plateau of Meteor roses and vases of Meteor carnations, one with plateau of Bridesmaid roses and carnations of the same name in vases, and the fourth with

plateau of American Beauties and vases of carnations.

The bouquets were of Mrs. Bradt and Gold Nugget carnations. Instrumental music was furnished by a mandolin orchestra stationed in the balcony, and the Florists' Club quartette, Messrs. McKellar, Winterson, Kissel and Balluff, aroused much enthusiasm with their selections during the evening.

The plants for the occasion were kindly furnished by Geo. Wittbold, the plateaus by E. Wienhoeber, the carnations by the late exhibitors, and the arrangements carried out by John Gormley and P. J. Hauswirth.

The banquet was served in the best style of the Auditorium, and in due season Toastmaster G. L. Grant called upon President Rudd to respond for the American Carnation Society. Mr. Rudd was received with long continued and enthusiastic applause, and his hopeful predictions of the future of the society were cordially endorsed.

Adam Graham, of Cleveland, whose name was associated with the Society of American Florists made very kindly references to its thriving auxiliary, and predicted a great future for it and all kindred organizations.

President-elect Nicholson's earnest words of promised work were warmly applauded.

Mr. Hill answered to the toast, "The Future of the Carnation," and gave a rosy outlook anticipating the early realization of Mr. Thorpe's four-inch flower.

Mr. Scott replying to the toast, "The Whole Thing," made a characteristic speech touching on the good-comradeship enjoyed at this gathering, and said that it was worth coming 2000 miles to participate in this convention and exhibition, which he asserted was the greatest show of this flower the world had ever seen.

W. J. Vesey, secretary of the Florists' Mutual Fire Insurance Association, gave a very earnest and convincing talk on the merits of this plan and urged the support of all that a practical trial be given to it.

Mr. Thorpe responded to the sentiment, "The Old and the New," and he gave some very interesting reminiscences of the early history of the S. A. F. and the natural branching out of the auxiliary societies from the parent source.

E. H. Giesy spoke to "The Voice of Prophecy," and succeeded in conveying to his hearers the information that "There's a good time coming."

Mr. Chadwick responded for "The Horticultural Societies," and the happy vein of his remarks won him the friendship of the entire assemblage.

C. W. Ward was called on to speak for "The Carnation in Greater New York," and referred to the high prices willingly paid for good stock.

Albert M. Herr spoke of the progress made by the society during the past year.

Mr. Dorner responded for "The Divine Flower" with all his old-time fervor.

Alex. Wallace put in a word for "The Horticultural Press."

R. Witterstaetter discoursed on "The Carnation in Ohio" calling attention to the progress being made there as elsewhere.

J. S. Stuart responded for "The Carnation in Indiana," claiming for that state a prominent place in carnation affairs.

The members of the society expressed much delight in referring to the pleasures of the evening, and dispersed at a late hour.

Notes.

Joseph Heinel, of Jacksonville, Ill., was an interested visitor at all the sessions.

Mr. Heinel has recently added a seed business to his flower store.

George M. Kellogg, of Pleasant Hill, Mo., one of the enthusiastic supporters of the next national meeting of the S. A. F. at Omaha, who was present, takes a hopeful view of the coming meeting there.

Saturday was given up to business calls at the various city stores and to excursions to the large greenhouse establishments at nearby points.

Alex. Wallace, E. G. Hill and Wm. Scott did not get away till late Saturday afternoon.

Details of the Certificate Scores.

The following table gives in detail the points awarded the different varieties in the competition for certificates.

Every variety in the preliminary certificate classes scoring seventy-five points, or more, received a certificate, as there were no plants required in these classes, although ten points on plant were allowed in the scale.

In the three-year class it was unfortunate that Mr. Niquet failed to stage a plant of the variety Maud Adams, as he lost all of the ten points by doing so.

PRELIMINARY CLASS, POSSIBLE 90.								
Variety	Color	Size	Calyx	Stem	Substance	Form	Fragrance	Exhibitor
*Mrs. T. Lawson	15	15	15	15	10	10	5 85	Fisher
Wellesley	10	10	15	12	8	8	5 68	Tailby
*America	12	14	15	13	9	8	9 80	Hill
*Arbutus	15	14	15	14	9	8	5 80	Hill
*Scarlet Queen	15	15	12	13	10	10	5 80	Hill
Prima Donna	15	13	14	10	8	8	5 73	Hill

THREE YEAR CLASS, POSSIBLE 100.								
Variety	Color	Size	Calyx	Stem	Substance	Fragrance	Plant	Exhibitor
Maud Adams	14	12	14	13	10	10	7 13 80	Niquet
*Empress	15	15	13	15	10	10	8 96	Swayne
*Evelina	15	15	14	15	10	10	5 10 94	Witterstaetter
Fort Wayne	12	13	14	13	8	10	4 6 80	Vesey
*Argyle	15	14	14	14	10	9	5 10 91	Stollery
*G. H. Crane	13	15	15	15	10	10	5 9 92	Dorner
B. No plant exhibited. *Certificate.								

Late Awards.

A delayed package of carnations, from Geo. A. Rackham, Detroit, Mich., reached the exhibition hall on the closing day (Friday), and the judges awarded second prizes for fifty blooms of Wm. Scott and fifty Alaska.

Echoes.

Adam told Scott about the Duke of Argyle again, and they both laughed.

Dean Palmer and Chadwick lingered long by the Genesee, so did Long.

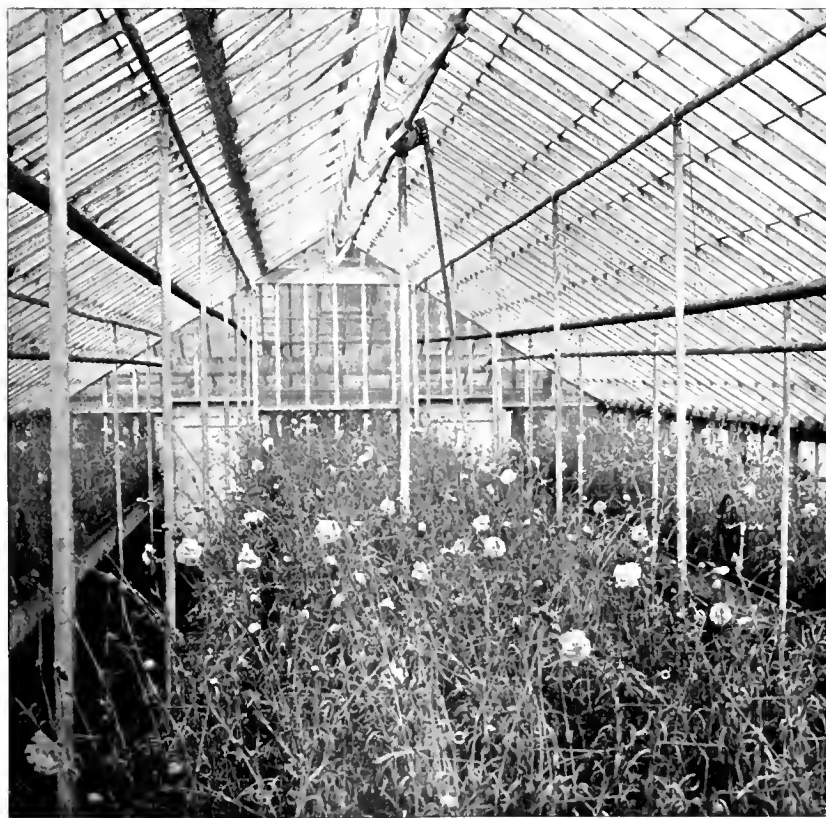
Peterson came pretty near having trouble with the Princess of Wales.

Somebody asked Balsley if he was not afraid of getting lost "Not with this suit on and I have no bell either", said Harry.

Gurney has scarlet fever in a very pronounced form.

Egan told Weber twice that Mrs. Robert Garrett is very beautiful.

Dorner has a new variety carnation



HOUSE OF MRS. MCBURNEY.

of course) built on entirely new lines—lookout.

Michel handled those South Park roses like a pro.

Swayne was with the Empress nearly all day.

Bertermann or somebody else said Wiegand and Langstaff could not be both spared from home at the same time; Langstaff won the toss.

Tailby was badly handicapped by distance, coming from the Hub.

Ward's Bon Ton is quite sparkling.

Coles may add another branch to his business—to grow fishing rods—several sporty men talked with him during the day.

Craig's flowers unfortunately were not in the best condition.

Witterstaetter held a whole day's levee with his Evelina.

Cincinnati's was the banner crowd.

Breitmeyer still smiles for Mayor Pingree.

Some lessons in packing are still needed—several packages of seedling came in the worst possible condition. J. T. A said—well he didn't laugh.

There are several other Richmonds in sight.

If Edgar Sanders' rule had been used before, one of those Frisco flowers would have gone four inches. The rule was new and inexperienced.

The ladies admired the other two ladies, Mrs. Bradt and Mrs. McBurney.

Evans said the Challenge would have kept the temperature lower.

Phil Hauswirth began to place carnation supports on ice a week before convention.

Hart says he has his eye on five or six of the new ones all right.

Elliott thinks he has been well paid for his trip from Pittsburg.

It may be Bassett will go into that fishing pole business, too.

#### New York.

BUSINESS GOOD.—SMILAX SCARCE.—A BIG WEDDING—CHANGES IN RETAIL AND WHOLESALE ESTABLISHMENTS.—THE ANNUAL DINNER, HITCHINGS & CO.'S EMPLOYEES' BALL.—ASMUS AS A JURYMEN.

Up to Wednesday, when Lent began, trade has been quite good here. Bulbous stock has been moving better, which is a good indication of activity all through the list. Smilax is getting scarce, as usual at this season of the year. Asparagus Sprenger seems to be gradually making a place for itself and is frequently called for. It is available in limited quantities at a dollar for three bunches.

On Monday next one of the largest wedding orders of the season will be executed by Hunt Bros. It is the wedding of Geo. Ehret's daughter. Large quantities of lily of the valley, Bridesmaid roses and snails are used.

There will be several changes in retail stores towards spring. F. W. Scallen will move to 107 Madison on Broadway. Fleischman will be associated with Mrs. Ward at the store on City ninth street and Madison, formerly occupied by Chris Mitter.

The wholesalers will see some changes also. H. A. Hoffman retires from business in Twenty-ninth street, the present address. It is rumored that M. A. Hart is to leave from Park to Twenty-eighth street.

The club dinner on Saturday evening will be a big one. Prof. John B. Smith, also the officers of the Local Horticultural Society, have accepted invitations to be present. J. N. Clark is listed to respond



CARNATION BON TON, GROWN BY F. A. BLAKE.

for the S. A. F.; John Morris for "Our Night;" Prof. Smith for the Experiment Stations; Prof. Britton for the Botanical Gardens; C. B. Weathered for our Society's Influence and John Young for the Wholesalers.

The fourth annual ball of the employees of Hitchings & Co. was held at Jersey City on February 15. Eight sets participated and the occasion was an unqualified success in every feature.

Ernst Asmus gets especial mention in the *Jersey City Journal* as a model jurymen. He is serving on the Simpson-Noonan conspiracy case. His "stylish equipage and well-matched horses" attract attention.

The committee representing the New York Florists' Club appeared before the Senate Committee at Albany on Wednesday and succeeded in having an amendment adopted exempting florists' greenhouse plants, flowers and cuttings commonly known as florists' stock from the provisions of the bill relative to the prevention of diseases in trees and pests that interest the same and the bill will be reported with this amendment.

An effort should now be made by florists everywhere to have uniform legisla-

tion on this subject. In states where laws are already in force bearing upon this subject the florists should unite with the experiment stations in an effort to have the laws amended or interpreted as exempting florists' stock. The action of the Michigan authorities in admitting florists' plants without certificates or examination, provided the experiment station is notified by consignor and consigne that florists' plants are being forwarded, also of the legislatures of New York and New Jersey and of the house committee in Washington in accepting amendments exempting such stock may be cited to strengthen the florists' position.

Clarence, son of James Purdy, died at Sing Sing, February 25, aged 15; Mrs. Owen McDonald died the same date.

#### Philadelphia.

STOCK SCARCE.—PRICES ABOUT THE SAME. GREENS SELL WELL.—LADIES' NIGHT AT THE CLUB.—PRIZES FOR BOWLING AND SHUFFLEBOARD.

The social season wound up all right, everybody seeming to be busy; growers are the only ones to complain, as flowers

have been so scarce that they have not for the past week been able to send in their usual quota. "If demand and supply would only keep pace with one another what a delightful business this would be," remarked a grower the other day. When we have plenty of flowers the price is very low, and it is a hard job to get rid of the stock, but when they get scarce what a difference; there don't seem to be trains enough to get in the small installments the dealers must have, and the telephone is ringing all the time for more of this or that until one is almost distracted.

In spite of the scarcity of stock, prices have remained about the same for roses. Carnations, however, stiffened up a bit, and \$2 was asked for quite ordinary flowers. Daffodils, valley and tulips remain about the same, there being about enough for the demand. Violets have been plentiful at about the same prices.

Greens have sold well, very little adian-

Tuesday evening was a great success. There was a good attendance of the fair sex and all present expressed themselves as much pleased with their entertainment. President Harris opened the exercises with a few well chosen words in which he welcomed the ladies and expressed the hope that there would be many occasions of a like nature; he paid a glowing tribute to fair woman, likening her to a rose, the most beautiful of flowers. Poetry was also a feature, which we regret we cannot include in these remarks, not having the address at hand. Mr. Lonsdale accepted the position of chairman of the entertainment at Mr. Harris' hands. There were songs by Mr. Dumont, who has a fine voice, and by some other gentlemen outside of the trade. John Walker sang an original song to the tune of "There'll be a Hot Time in the Old Town To-Night" that brought down the house. Robt. Kift also sang an original song for the

Miss Nellie Hinckle, while the booby prize was taken by Mrs. Craig with a score of 000. Each contestant was allowed nine balls each at a full frame.

At the shuffle boards Miss Gloster won the first prize, Miss Carey the second and Mrs. John Burton the third, while Miss Annie Lonsdale won the booby. Every one present was immensely pleased with the entire entertainment, John Westcott particularly, as he was largely instrumental in bringing it about, and worked hard to make it a success.

Mr. P. H. Meehan who for several years past has served in the capacity of foreman for Myers & Santmann, is now open for a position. Mr. Meehan has had great success with Beauty and Bridesmaid roses, his stock being equal to any coming to this market. He has also been quite successful in raising new varieties of roses, several of his seedlings having considerable merit.



ROSE CLARA WATSON.

tums going to waste, and asparagus, in bunches particularly, being always behind the demand. The Sprengerii is a good seller, and is being used considerably for table decorations: it certainly seems to have a future.

Blooming plants are now largely in evidence and brighten up the stores considerably. Azaleas, rhododendrons, lilacs, cinerarias, cyclamens, genistas, hyacinths, daffodils and tulips are all to be had in quantity, and as a rule the quality is fine. The demand for this class of stock varies with the weather, a nice spring-like day seeming to put flower buyers in the humor to get a plant for the window.

The first ladies' night, or reception to the ladies, given by the Florists' Club last

benefit of the bachelors. Mrs. Dr. Goebee played beautifully on the piano, and the "Brave Old Duke of York" was given in Mr. Lonsdale's best style.

After refreshments had been served bowling and shuffleboard for prizes was indulged in by the ladies and thoroughly enjoyed, particularly the bowling, as watching the balls slowly edging over to one side of the alley or the other, and going off gracefully into the gutter before they touched the pins, was great amusement to all except the fair bowler, whose look of disgust would have done credit to a veteran. Some ladies took part in this game. High score, sixty-one, was made by a Miss Stewart; second, forty-seven by Mrs. Dr. Goebee; third, forty-three by

Don't forget the lily symposium at the next meeting of the club; it is a matter of interest to all growers of these bulbs, and now is the best time to discuss it. K.

#### The Clara Watson Rose.

This excellent variety has given much satisfaction recently and it is likely to be much sought after in the immediate future. It is a strong grower, and affords good results outdoors or under glass. The large flowers, of a beautiful soft pink with salmon shading, are produced in great abundance, and hold out to a remarkable extent for a rose of this delicate color.

## Boston.

LECTURE ON STREET TREES BY W. R. SMITH.—A NOTABLE BANQUET.—POETRY AND ORATORY.—NOTES FROM WABAN ROSE CONSERVATORIES.—A BEAUTIFUL GREENHOUSE CLIMBER.

The announcement that W. R. Smith, of Washington, was to lecture before the Massachusetts Horticultural Society on Saturday, February 19, on the subject of street trees, attracted an immense audience, nearly filling the lower hall. The paper was of the high character that would be expected from such a source, carefully prepared, well thought out and full of the garnered knowledge of half a century of devotion to this subject, and was followed by an animated discussion of the points touched upon. The vast injury done to shade trees by electric wires was strongly dwelt upon by a number of speakers. On the exhibition tables were some interesting collections of flowers from James Comley, Mrs. E. M. Gill and others. Certificates of merit were awarded to W. W. Lunt for *Cypripedium Lathamianum*, and to James Comley for a handsome double pink *Prunus* of Japanese origin. Wm. Thatcher showed plants of single violet *St. Augustine*, and double *primulas*.

W. R. Smith was in the hands of his friends on Saturday evening. The banquet hall in the Brunswick was once more the scene of an enthusiastic gathering of the lovers of horticulture, who had come to do honor to their distinguished guest. The decorations of the tables and mantels were superb, rich material being contributed from many commercial and private establishments, and the work being done by Messrs. M. H. Norton and Carl Blomberg. Over the mirror was a canopy of the lovely *Clematis indivisa* which made such a sensation when similarly used at the time of the carnation society's entertainment here. The buttonhole bouquets were sprigs of heather, and appropriate quotations from Burns adorned the menu.

After the dinner had been duly disposed of, Mr. M. H. Norton rapped for order and briefly expressing his appreciation of the occasion, introduced Hon. C. W. Hoitt as toastmaster, who, in turn, presented the guest of the evening. Mr. Smith said he wished that he had words to utter what his heart felt. He told of the pleasure he always experienced in coming to Boston and meeting his friends there, and in describing his first visit, thirty years ago, dwelt upon the beauty of the grounds and surroundings at Mr. Hummewell's place and the kindness of Mr. Harris to him. His witty allusions to certain experiences of late years with some of the gentlemen present were greatly enjoyed.

Before beginning on his list of orators Judge Hoitt gave them the timely admonition:

Mr. J. D. W. French, long identified with the library management of the Massachusetts Horticultural Society, was the first speaker. He told in an interesting manner of the importance of the great forest reservations of the state and the nation and wished that Mr. Smith might be brought here often. Prof. Louis C. Elson, of the New England Conservatory of Music followed. He had been lecturing in a remote part of Penn.ylvania and had traveled in the caboose of a freight train all the previous night in order to participate in this occasion. He referred to the great number and many varieties of Smiths in

the world, which he never could account for until he saw recently in New Jersey a sign inscribed "Smith Manufacturing Co.," and that explained it all. But this one "is the gowd, for a' that." He then read a poetical effusion which he had composed while riding in the aforesaid caboose, in which the follies and accomplishments of some of the local craft were cleverly hit, the concluding verses of which were:

'Then welcome to our good old friend,  
Who traveled from afar,  
The hand of greeting we extend  
To our Scott's Lochmivar.  
To-night we are his kin and kith,  
We're glad to meet you, Mr. Smith."

'So here's to him who's our guest,  
With whom we come to dine;  
We greet him with our very best  
Because of 'Auld Lang Syne,  
And this is of my verse the pith,  
'Here's all good luck to Mr. Smith."

Messrs. Oakes Ames, E. M. Wood, W. J. Stewart, W. H. Manning, E. L. Beard, E. O. Orpet, J. Ph. Rinn, W. W. Lunt, J. W. Manning, W. J. Hargraves and others all spoke in appreciation of Mr. Smith's eminent services to horticulture, his honorable record, his attainments in his special field, his worth as a man and the pleasure they found in his acquaintance and friendship.

Mr. Jackson Dawson talked very interestingly of the trees he had noted in his recent trip to Europe, mentioning particularly the grand cedars of Lebanon in Scotland and the remarkable fact that the finest specimens of some of the Pacific coast trees are to be seen there. Fota Island, he declared beats the world for the great variety of its trees. Lawrence Cotter claimed Fota Island as the land of his nativity and corroborated Mr. Dawson's description of its beauties. He referred eloquently to Massachusetts horticulture, too. Warren Ewell was reserved, like good wine, for the last. He said that he was relieved to find that he had not been left out and remarked that his favorite tree was the pine which is easy to climb in case of fire. Warren spoke but a few moments but succeeded in putting the entire company in a state of hilarious collapse before he got through. Then came "Auld Lang Syne" led by Prof. Elson and rendered with grand effect.

At Waban Conservatories Mr. Montgomery has a house of Carnot roses which have just been cut and are now beginning to break, after a dry rest, and are expected to yield a fine crop for Easter time. Mr. Montgomery says that Carnot is identical with Kaiserin in behavior and is of little value as a mid-winter rose. It has to be forced to keep it in bloom and then it loses color. They are cutting now from the first house of Brunners, good flowers for the season, and other houses are ready to follow in succession. The new rose *Sharman Crawford* is being tried in a limited quantity and looks promising now. Mr. Montgomery asserts that Mrs. Pierpont Morgan is gradually gaining ground. A regular and increasing call for it has been experienced this season. It has been rather slow in blooming up to February but will give a good cut from now on. A handy device in use here is a quantity of tin sheets cut a fraction wider than the glass panes in the various houses which can be sprung into place at a moment's notice, from inside the houses, when a light of glass gets broken. These came in very useful after the recent blizzard. A number of these tin squares are provided in each house.

*Clematis indivisa* is in bloom at Mr. Hummewell's and is a picture worth going

a long distance to see. Another prime attraction is *Begonia Gloire de Lorraine* which has been constantly in bloom since November 1, and is still a perfect mass of pink flowers, in a house that frequently goes as low as 40° temperature at night.

The Massachusetts Horticultural Society held a meeting on February 19th to decide whether it would remove from its present location to one better fitted for its needs. While there is undoubtedly a sufficiently strong sentiment in favor of a better location, with modern halls, etc., yet the society is not prepared to commit itself to any scheme for carrying it off a couple of miles from the center of business as the recommendation of the building committee provided, hence the whole matter was voted down and, for the present, there is not likely to be any change made.

The Massachusetts Forestry Association has been organized. Many prominent gentlemen have already signed the membership roll. Membership fee is \$2, and life membership \$50. Applications for membership should be sent to Allan Chamberlain, Winchester, Mass.

E. Sutermeister has been appointed assignee for Fred. W. Hiatt.

## Louisville, Ky.

Business continues to be brisk here, with roses and carnations very scarce. This season has been a very poor one for both, very few growers have cut as many roses this year as last, and all claim their carnations have done poorly; the writer himself having twice the amount of space in carnations and not cutting any more blooms than last year. This is no doubt caused by the continued cloudy weather we have been having here.

In my last letter I spoke of the need of a commission house here, since which time I have received several letters from retailers claiming I was mistaken and that we were receiving more money for our flowers than if they went through a commission house; also that it would be the means of introducing the fakir in our city, which would injure our business very much. I would like to hear from some of our brother florists in cities that have both the commission men and the fakir to know what they think about it.

Mr. Rice, of Philadelphia, is in our city at present, and seems to be getting some good orders.

Geo. Schulz is sending in some very fine California violets, of which he has a large house. C. H. K.

WILLIAM McMILLAN, recently of Buffalo parks, has been appointed superintendent of the Essex county (New Jersey), park system.

CHAMPAIGN, ILL.—Thursday morning February 17, the boiler room and a portion of the greenhouses belonging to the East Side Floral Co. were damaged by fire. The origin is unknown, and the loss will be about \$2000. A large force of men were put to work at once, and everything is again in running order.

SALT LAKE CITY, UTAH.—The Salt Lake Florists' and Gardeners' Association held its regular meeting at the Huddart Floral Company's office, February 16. There was a large attendance. Addresses were made by the presiding officer, Mr. John Reading, Mr. James Williams and Mr. H. E. Thorp. The next meeting will be held March 3, when officers will be elected for the ensuing year.



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### A Correction.

Mr. F. A. Chapman advises us of a mistake in the statement in our Grand Rapids notes in a recent issue that his "violet house was frozen." He says no such accident occurred.

We are pleased to learn that Mr. Chapman's house is still in good shape and we trust that it will continue to bring him in many dollars till the end of the season.

### Tulips, Narcissus and Dutch Hyacinths for Easter.

ED. AM. FLORIST:—In the issue of February 12, page 753, your correspondent "B." in answer to "A. V." states that in order to have tulips, narcissus and Dutch hyacinths in bloom for Easter (April 10), just seven weeks from date, it will be necessary to place them in a temperature of 45° at once, increasing the heat gradually to 65° or 70° in the course of the next two weeks.

Surely there must be some mistake here, for if the bulbs are in the right condition for this season of the year, they will be well advanced, and should need but half that time to properly develop them, and a temperature of 60° would be ample, and if they get too forward, a lower temperature still will do, especially for tulips, for if allowed to expand fully many times, which they are bound to do in a high temperature, they will be useless as cut flowers.

There is no better place for tulips and narcissus at this season of the year than under the benches of a carnation house, where the drip from watering will not spoil the flowers. NARCISSUS.

### Forcing Paeonies.

ED. AM. FLORIST:—Will you please state through your columns whether it is possible to flower *Paeonia tenuifolia* fl. pl. by Easter? Would a violet house be the right place for them? They are now in a violet house in 5-inch pots. Would they need drawing up to get long stems? Imported from Holland last fall.

W. DUNMAN.

I am afraid all the flowers Mr. Dunman will get on imported pieces in 5-inch pots for next Easter will be quite easily disposed of. It is quite possible to flower *Paeonia tenuifolia*, but as they are gross feeders, I would shift them at once into 8 or 9-inch pots with good drainage, using the richest loam procurable, increasing the temperature from that of the violet house to about 60° at night with a further rise of 10° in the daytime, giving plenty of air on all favorable occasions. When the flowers begin to open, the plants should be moved back to the violet house and hardened off properly before using.

My advice is not to force them this year, but plant them out in well prepared ground, and after they have made about

three years growth they will be fit subjects to force, if they will stand the climate. LAWRENCE COTTER.

### Split Calyx.

ED. AM. FLORIST:—Would you kindly tell me through the columns of your paper the cause and remedy of split in carnations. I have Portia and Silver Spray in one house and Portia and Wm. Scott in another. The Silver Spray and the Portias in both houses are splitting. Wm. Scott came in first-class flowers under the same treatment. I keep them at a night temperature of 52°; on cold nights the temperature falls a little lower; day temperature 60° to 66°. Would a too heavy liquid manure dressing cause split? J. D.

The gentleman wants to know the cause and remedy of split in carnations, especially with the varieties Portia and Silver Spray. As I understand it he means by split the bursting of the calyx. The cause of bursting the calyx is a problem difficult to solve; the fault lies in the calyx not being strong enough to allow the flower to push up through it and properly expand; and some varieties are weaker in that respect than others, among them the two varieties named, hence they are being discarded for varieties that show the improvement that is being made in this line by the various seedling raisers, and many a fine variety in other respects has to be turned down for this one failing. It can be guarded against to a certain extent, however, as careless treatment by over-watering, stripping the plant of too many cuttings, and over-feeding with liquid manure, together with a close atmosphere are great factors in causing a carnation to burst its calyx.

### Bugs on Carnation Blooms.

ED. AM. FLORIST:—Will you please tell me how to get rid of a little bug that is eating the color out of the flowers of my carnations? It is about the sixteenth of an inch long and the thickness of a very fine needle. MARY J. WALLACE.

I should judge by the description given of bug that mars the color of the petals of carnations, that it is a species of thrip. We have been troubled with the same thing at times in the summer when it was very hot and dry, but never at this season of the year. It would be a difficult matter to get rid of them now, after they have once got a good foothold, without destroying the flowers, as they are generally found down in the body of the flower before it is fully expanded. I would advise the lady to apply a light dose of sulphur and lime to one of the steam pipes and to keep an even temperature, avoiding a high, close temperature, and give ample ventilation on every favorable occasion; this, together with fumigating once in a while, may help to keep them in check.

### Wood Ashes as a Fertilizer for Carnations.

ED. AM. FLORIST:—How would you use wood ashes as a fertilizer for carnations? What proportion, also what kind of ashes, leached or unleached, is best? DILLON MYERS.

Unleached wood ashes is a good fertilizer for soils that are lacking in phosphoric acid and potash, and our experience with it is that it is best to mix it with the soil before filling the benches, using about 100 pounds to enough soil to fill a house 18x100, with benches five

inches deep, adding the ashes about a month or so before, giving it a chance to work through the soil. This has proven a sufficient quantity for our soil here, but as there is a great difference in the nature of various soils, it is a difficult matter to state any definite amount for general usage. It can also be used as a light top dressing for carnations, but should be used with caution until the nature of the soil is thoroughly understood, and must never be applied when the beds are in a very dry condition, or it is liable to burn the foliage.

### Sleepy Helen Keller Carnations.

ED. AM. FLORIST:—What is the trouble with my Helen Keller carnations? They make a clean healthy growth and produce good stems, but fully three-fifths of the flowers go to sleep when about half developed. This is my first trial of this variety. Would say that Storm King in the same bench, with same soil, treatment, etc., is doing first-class. McGowan in next bench is very good. Have given all the plants a light top-dressing of fine soil and bone-meal. Night temperature 55°, in very dull weather a little lower. Could you kindly point out cause of my failure. THE FOREMAN.

The gentleman is having the same trouble with Helen Keller that seems to be universal, and the variety has been discarded by a great many growers for this one reason more than anything else. It seems to get affected more in mid-winter during dark cloudy weather, hence it would appear only natural that it needs a warmer temperature than most varieties, the soil to be kept on the dry side. There are some varieties of carnations that develop their seed-producing parts before the flower has had a chance to properly mature, and self fertilization is likely to occur, which may be the cause of Helen Keller going to sleep so quick, but I have not studied this one particular variety. C. W. JOHNSON.

### Rose Mrs. Pierpont Morgan.

For two years we grew a small a house of the rose heading this note. It was not a great favorite, for some unaccountable reason, with the city retail florists.

We do not encourage retail trade here on our own place, catering exclusively to the wholesale trade. Some persons will drop in, however, occasionally wanting flowers, and because the dealers in Philadelphia did not take very kindly to Morgan, this was the rose offered to retail customers. So well did it please them that we secured orders for delivery at regular intervals—twice a week. In addition to its other good qualities it is an excellent keeper. These customers frequently remarked that the flowers when three or four days old were still in good condition, and when the fresh ones were delivered the older ones were forwarded and presented with evident great pleasure to some less fortunate person who did not have flowers often. For this reason, if for no other, Mrs. Pierpont Morgan ought to be grown to a greater extent than it appears to be, especially in the smaller towns where a florist is a combination of grower and retailer.

This year we are growing Carnot in the house occupied by the "Morgan" for the two years previous, and at this writing the change does not appear to be a profitable one. We must wait until the 1st of July, however, before making up our mind thoroughly whether we erred or not by the change. L.

Cut Flower Price Lists Received.

Ellis & Pollworth, Milwaukee; W. A. McFadden, Cincinnati; John Fay Kennell, Rochester, N. Y.; Holton & Hunkel Co., Milwaukee; Illinois Cut Flower Co., Chicago.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line seven words each. Insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a first-class rose grower; 15 years' experience. Good references. Address D. W., care American Florist.

SITUATION WANTED—By competent grower in private or commercial place. Best of references. JOHNSON, 48 W. Huron St., Chicago.

SITUATION WANTED—By a competent store man. Late with Freedman; reference given by Chicago wholesale florists. R. A., care Am. Florist.

SITUATION WANTED—By young married man; good grower; 10 years' experience; second man, large place. Address L. A., care Am. Florist.

SITUATION WANTED—By rose grower as foreman; expert in all leading varieties of cut roses, mums, carnations, etc.; plants, mums, palms, etc. O. S., care American Florist.

SITUATION WANTED—By A-I general outflower grower; good decorator. Recommendations furnished; German American; 30 years old. Address V. G., care American Florist.

SITUATION WANTED—A No. 1 grower of roses, carnations, mums, etc.; sober and steady, competent to take charge; prefer the west. Address N. N., care American Florist.

SITUATION WANTED—As assistant florist, single, age 25, 7 years' experience; sober and reliable. References. Address I. H. A., 115 Pomfret St., Carlisle, Pa.

SITUATION WANTED—By an experienced gardener and florist to take charge of private or commercial place; age 38, married. Best of references. CHICAGO, care American Florist.

SITUATION WANTED—By young man to learn the florist trade; sober and reliable; state terms. Address W. C. GREGORY, Box 32 Markham P. O., Ontario, Canada.

SITUATION WANTED—On first-class commercial place as rose grower, by young man, age 22. References as strictly first-class. Please state particulars. Address FLEMING, care American Florist.

SITUATION WANTED—A competent seedman who wants situation with a reliable seed house, can speak Dutch, German or English; correspondence solicited. H., care American Florist.

SITUATION WANTED—By experienced gardener and florist, German, to take full charge of private place. References A-I. Address, stating particulars, L. M., care J. I. Schiller, 104 E. 64th St., New York.

SITUATION WANTED—As foreman in first-class establishment, specialties, roses, mums, carnations, orchids, etc. Ife experience; well up in other branches of the profession. CO., care Am Florist.

SITUATION WANTED—By practical florist age 33, German, single, good grower of cut flowers and general bedding plants, good wages expected. References. FLORES, Cleveland State Hospital, Ohio.

SITUATION WANTED—To take charge of nursery or first-class private place. References, Europe and this country. Middle-age, single, 1 year as foreman in last place. GARDENER, Glen Mew, Ill.

SITUATION WANTED—By practical florist of 17 years' experience, good cut flower grower, roses, carnations, etc. Competent to take charge; would work on shares. References and bond given. Address BELLAIR, care American Florist.

SITUATION WANTED—As foreman on gentleman's place near some city, gardener and florist, married man, 25 years old, with small family, and best of references. Address with full particulars CAPABLE, care American Florist.

SITUATION WANTED—As foreman by practical florist and grower, specialty No. 1 roses, carnations, mums, etc. References given, now disengaged, age 35. Best references. Address W. B., care 104 E. Main St., Alliance, O.

SITUATION WANTED—By young man of good character in commercial place in New England states; 7 years' experience in order that he can grower, capable of taking charge of business, age 22. Good references. LEW. WELCHER, 8 Pleasant St., Wakefield, Mass.

SITUATION WANTED—As foreman with some refined party by a practical grower of roses, carnations, mums, etc., with small family, and general stock of bedding plants, 10 years' experience, references O. K. Address FORDMAN, care American Florist.

SITUATION WANTED—By successful rose grower who has developed his methods to rose culture, well posted in all the work, designs and landscape, able to take entire charge, commercial place preferred. Address ROSE GROWER, 110 1/2 E. 12th St., Cincinnati, O.

SITUATION WANTED—As manager of park or private place; young German-American desires engagement; thoroughly experienced in all branches, can furnish best of references; married, family of two. Address R. S. L., care American Florist.

SITUATION WANTED—A gardener experienced in propagating, culture of palms and ferns, foliage plants, roses, carnations, etc.; also in landscape gardening, botany and designing, would like a situation as foreman in a florist's establishment, park or college. Address 75 Jefferson St., Battle Creek, Mich.

SITUATION WANTED—By a landscape gardener and florist, German, married, 35 years old; 20 years' experience in flowers, vegetables, fruits, care of pleasure grounds and bothouses; position in private park, cemetery or gentleman's place in city or country. Best of recommendations. Address H. SCHERWAT, care American Florist.

SITUATION WANTED—By Scandinavian-American, 26, single, as foreman or manager; 10 years' experience in principal countries of Europe and U. S.; roses, carnations and orchids; mums, palms, ferns, bedding stuff, etc.; A-I propagator; now running 25,000 feet of glass; California preferred. Address NEW YORKER, care American Florist.

SITUATION WANTED—As foreman in cut flower establishment, mostly roses and carnations; must be up to date in conveniences; by all-round man, single, American, nine years' experience; don't use tobacco or drink; west preferred; good wages expected. References. ROSES, 2640 Cottage Grove Ave., Des Moines, Ia.

SITUATION WANTED—As foreman or manager in large commercial place by a first-class grower of roses, carnations, mums and general stock; life experience, married, age 36; has been foreman in large establishments for the past ten years; only reliable parties who wish a first-class man need answer; best of references. Address ROSE GROWER, care American Florist.

SITUATION WANTED—As foreman in good florist's establishment; first-class rose grower, also palms, ferns, carnations, mums, violets and general stock; or take charge of a gentleman's good private place; 20 years' experience in England and America, strictly temperate; good wages expected; married; disengaged about March 1st. Good references. Address GEORGE NORTH, 104 Center St., Bridgeport, Conn.

WANTED—The address of Carl Jorgensen, Dane, Amager. Address L. JENSEN, South Butte, Mont.

WANTED—Single man for general greenhouse work. Address, stating wages desired, etc. HUNTSMAN & CO., Cincinnati, O.

WANTED—Young man to take charge of florist business and take interest in business. Address NEW YORK, care American Florist.

WANTED—Prices on 16x24 double thick A glass. Also rooted petunia and rose cuttings. Address W. T. HEMPSTEAD, Bloomington, Ill.

WANTED—Trade list and catalogues of plants, bulbs, seeds and nursery stock. Address MRS. W. E. FULLERTON, Whitman, Mass.

WANTED—The address of H. C. Bucheler; send immediately. Address MRS. H. C. BUCHELER, Oconomowoc, Wis.

WANTED—Three or four young florists, good workers, at once, for steady work; state wages with board. H., care American Florist.

WANTED—California and Russian violet runners in exchange for 1000 American Beauty rooted cuttings. P. K., care American Florist.

WANTED—A good, steady man to do general greenhouse work; married man preferred. Apply to JACOB MEYER, Morton Grove, Ill.

WANTED—Reliable man for roses and general floral work; good pay for good work. Address J. T. WILLIAMSON, Prop. La Rose Gardens, P. O. Box 18, Memphis, Tenn.

WANTED—On a large wholesale place in the west, two young men who understand packing and filling plant orders. Address PACKING DEPT., care American Florist.

WANTED—Gardener where only one man is kept; palms, ferns, etc., and especially orchids; private place, Chicago, lawn, Hrus, row; single man preferred. Address C. H. W., care American Florist.

WANTED—Experienced florist for general greenhouse work and decorating; a married man preferred. Must have good references, state wages expected. Address A. B. Postmaster, Memphis, Tenn.

WANTED—After March 10 single man, A No. 1 roses, carnations, mums, violets and general stock; must give good references, German preferred; state wages with board. Address S. K. W., care American Florist.

WANTED—To rent, with privilege of buying, greenhouses, 1000 to 10,000 feet of glass, perfectly heated (hot water preferred), and plenty of water and good soil, near Philadelphia. Address W. N. L., Box 54 Lancaster, Pa.

WANTED—A German gardener, single man who understands growing and planting of vegetables both in and outdoors. Give references. Must not be afraid of work, wages paid from \$15 to \$20 per month and board. Address K. S. W., care American Florist.

WANTED—Foreman on commercial place, call florist, must be experienced in handling men; with unquestionable knowledge of propagating and growing both inside and out; competent to take charge; good habits and best of references. Address CARNATION, care American Florist.

WANTED—A competent man for cut flower department and making up floral designs and bouquet work; also one that understands decorating and general greenhouse work. Apply CHARLESTON GREENHOUSES, 309 Meeting St., Charleston, S. C.

WANTED—Young man thoroughly experienced in the best class of retail florist business; must be first-class in window, table and wedding decorations, also design work. Apply with references, ability, etc., stating wages expected. Address J. H. DUNLAP, 445 Yonge St., Toronto, Can.

FOR SALE—One Alaska refrigerator in first-class condition. Address JOHN H. ORTH & Co., McKeesport, Pa.

FOR SALE OR RENT—Greenhouse and cottage on C. & N. W. R. R., 35 miles from Chicago; will make easy terms on sale or low rent. Address E. W. UPHAM, Waukegan, Ill.

FOR RENT—Seven greenhouses, stocked; dwelling and land, steam heat; convenient for Baltimore wholesale market, and fair local trade. Address MARYLAND, care American Florist.

FOR RENT—Greenhouse, 6,000 feet of glass on Main street; street cars pass the door; store and dwelling house connected with same place. \$35 per month. Address P. N. SOETGA, 1832 Cedar Ave., Cleveland, O.

FOR SALE—Greenhouse plant of 5,000 feet of glass in Jamestown, N. D.; price \$1,500; 1/3 cash, balance may be paid in cut flowers. Address W. W. SEEKINS, 921 E. 3rd St., Duluth, Minn.

TO EXCHANGE—Cinerarias ready for 4-inch pots for Variegated Geraniums, Colons, Cyclamens, Verbenas, or five cents a piece. Address C. LAYER, Gilman, Ill.

FOR SALE—A bargain never before offered: Five well-stocked greenhouses, brick dwelling, 6 1/2 acres land in the beautiful city of Oconomowoc. Poor health is the only cause for disposing of same. Address MRS. H. C. BUCHELER, Oconomowoc, Wis.

WANTED—Situation as grower or salesman in commercial establishment. Can furnish excellent recommendations. Eight years with Fred C. Becker. Address ANDREW, 45 Hancock St., Cambridge, Mass.

WANTED—A large quantity of Boston Fern, State size and lowest cash price per thousand. Address S. J., care American Florist, Eastern Office, 67 Bromfield St., Boston, Mass.

FOR SALE—Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars address ELLIS & POLLWORTH, Milwaukee, Wis.

A Business Chance—For any one who wishes to buy at a reasonable rate, a flower store located on one of our busy streets; don't apply unless you mean business, address all communications to Wm. F. Kasting, 495 Washington St., Buffalo, N. Y.

Situation Wanted—A COMPETENT MANAGER of thorough ability and over 20 years' practical experience desires a position to take entire charge of private estate, park or first-class commercial place; an experienced cultivator of palms, orchids, florists' stock in general, shrubbery, fruit and vegetables; a good floral decorator. Thoroughly reliable, married, with small family. Good wages required. Address FLORIST, care S. J. Nelson, 206 E. 28th St., New York.

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Chicago.

Trade continues good; much more business could be done if the stock could be got to do it with. Bridesmaid roses and all varieties of carnations are especially scarce; extra select Bridesmaids were sold this week for 15 cents. The demand exceeds the supply for all kinds of flowers, except bulb stock, which is in good supply and comparatively cheap. It is expected that trade will slack up a little at the beginning of Lent, and that stock will soon be sufficient for the demand. Carnations are not coming in very plentifully, and it is doubtful if there will be any surplus in the market for some time.

Geo. Swoboda, of Hess & Swoboda, Omaha, Neb., was in the city Monday on business; Mr. Swoboda reports business good in Omaha. The florists there expect a much better spring trade next season than usual on account of the Exposition next summer.

At the meeting of the Chicago Florists' Club Thursday night, the committee on the entertainment of the carnation society, reported that the bills for the entertainment as far as they knew had been paid, there might be a few small accounts still unsettled, and that there would be a further small expense of the committee but that they felt certain that they would have surplus funds left after all accounts were settled to be able to return to the donors 25% of the money. The committee received a vote of thanks from the club for the very efficient manner they had done their duty; all present were highly elated with the grand success of the carnation society meeting and the financial report of the committee. The order of the evening was the reading of a paper on marketing cut flowers by J. T. Anthony. The paper was well received and favorably commented upon by all present.

Mr. C. E. Sevey, of Fort Wayne, Ind., is in the city on business connected with greenhouse insurance.

Mr. Evans, of the Quaker City Machine Works, is still here.

C. W. Ward, of Queens, N. Y., left for home Thursday night.

MARINETTE, Wis.—Geo. Vetter expects to enlarge his floral gardens, and has purchased the Eggner property on State street.

Wholesale Flower Markets

Table with columns for city (Cincinnati, Feb. 21), flower type, and price. Includes items like Roses, Beauty select, Brides, Bridesmaids, etc.

Table with columns for city (St. Louis, Feb. 24), flower type, and price. Includes items like Roses, Beauties, Meteors, Brides, Bridesmaids, etc.

Table with columns for city (Milwaukee, Feb. 25), flower type, and price. Includes items like Roses, Beauties, Brides, Bridesmaids, etc.

Table with columns for city (Buffalo, Feb. 24), flower type, and price. Includes items like Roses, Beauties, Brides, Bridesmaids, etc.

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" Perle, Gonters . . . . .	5.00@10.00
" La France Testout . . . . .	2.00@ 3.00
Carnations, common . . . . .	2.00@ 6.00
" Fancy . . . . .	2.00@ 6.00
Violets . . . . .	.50@ 1.00
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Callas . . . . .	10.00@12.00
Harrill . . . . .	12.00@15.00
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Von Slon . . . . .	2.00@ 3.00
Iris, cloths . . . . .	4.00@10.00
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**ALWAYS ON HAND FINE STOCK OF CUT FLOWERS**  
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 404-412 E. 34th St. Near Ferry.  
 Open for Cut Flower Sales at 6 o'clock Every Morning.....  
 DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.  
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Supply Orchids every day.

Only House in New York handling Extra Fancy Stock for Special Occasions.

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FLORIST.  
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49 WEST 28th STREET,

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SPECIAL EXTRA STOCK OF

AM. BEAUTY, METEOR,  
BRIDESMAID, BRIDE.

Record Breaking Carnations

ALL THE YEAR ROUND.

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Roses shipped to all points. Price list on application.

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Will find a good market and good returns for their stock at...

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Careful Shipping to all parts of the country  
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THE BEST MARKET IN NEW YORK.

# TRAENDLY & SCHENCK, Wholesale Florists,

Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.

38 West 28th St., and Cut Flower Exchange,  
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# Wholesale Flower Markets

NEW YORK, Feb 23

Roses, Beauty	10 00@50.00
" Br des, Bridesmaid	3 00@ 10 00
" Teatout, Carnot	4 00@ 12 00
" Morgan, Meteor	3 10 @ 10 00
Carnations	1 10@ 2 00
" fancy	2 50@ 4 00
Valley	1 00 @ 4 00
Mignonette	2 00@ 6 00
Violets	.40@ .75
Harrish	5 00@ 8 00
Tulips	1 50@ 3 00
Stulax	10 00@ 12 00
Cattleyas	25 00@ 40 00
Daffodils, Jonquils	1 00@ 3 00

BOSTON, Feb 23.

Roses, Beauties	15 00@ 50.00
" Perle, Niphotos	2 00@ 4 00
" Bride, Bridesmaid, Morgans	4 00@ 12 00
" Carnot Meteor	6 00@ 12 00
Carnations, ordinary	1 50@ 2 50
" fancy	3 00@ 4 00
Valley, Daffodils	3 00@ 4 00
Violets	.35@ .75
Hyacinths, Narcissus, Freesia	.75@ 2 00
Tulips	2 00@ 3 00

PHILADELPHIA Feb 21

Roses, Beauties, per dozen	3 00@ 8.00
" Teas, firsts	7 00@ 10 00
" select	12 00@ 15 00
Carnations	1 50@ 3 00
Valley	3 00@ 4 00
Violets	.60@ 1 00
Narcissus	2 50@ 3 00
Hyacinths	2 00@ 3 00
Harrish	10 00@ 12 00
Daffodils	3 00
Tulips	4 00

# CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.

WELCH BROS., PROPRIETORS.

Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

# J. K. ALLEN, Wholesale Florist,

57 West 28th Street, NEW YORK,  
near 6th Ave. Elevated R. R.

BEAUTIES AND VIOLETS, SPECIALTIES.

Consignments Solicited.

# JAMES M. KING Commission Dealer in CUT FLOWERS.

Good Money for your Flowers.  
Good Flowers for your Money.

49 WEST 29TH ST., NEW YORK.  
TELEPHONE 1675 38th St.

# THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,  
112 and 114 West 24th Street,

Telephone 733--18th. NEW YORK.

CONSIGNMENTS SOLICITED.

Special Attention Given to Shipping Orders.

# GEORGE A. SUTHERLAND, Cut Flowers AND Florists' Supplies WHOLESALE.

67 Bromfield St., BOSTON, MASS.

Wholesale Florists

ALWAYS ON HAND:  
CARNATIONS,  
BRIDESMAIDS,  
BRIDES.

FLORIST'S SUPPLIES.

FLORISTS' VASES.

Horticultural Auctioneers.  
84 HAWLEY STREET, - BOSTON.

# GALVIN & CO.

Wholesale Florists

AND DEALERS IN ALL  
FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.  
Cut Flower Consignments Solicited. Best market.

# JOHN YOUNG, ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

51 W. 28th Street, NEW YORK.

Price list on application.

# FRANK MILLANG, CUT FLOWERS, WHOLESALE COMMISSION,

408 E. 34th Street,

Cut Flower Exchange, NEW YORK.

# WM. C. SMITH, Wholesale Florist,

40 So. 16th St., PHILADELPHIA.

Consignments Solicited. Special attention given to shipping orders  
Long Distance Telephone 5068 A.

Paris.

Since my letter of January 14, the weather has changed very little around us. We continue to have a good deal of fog and rain, with scarcely any frost worth mentioning. The prevalence of the unseasonably mild weather induced our advance guards, snowdrops, ficarias, etc., to unfold their blossoms earlier than usual. It has been stated by our papers that in the central part of France a plum tree in the open ground was in full flower over a week ago. This is rather early as the tree may learn later on, to the detriment of its yield.

It one of the enclosed gardens at Dijon the hepaticas had, some time ago, their flower buds sufficiently developed to expand their nice blossoms before this date. Such an early flowering shows an advance of four to five weeks over the normal season, if we consider that in the district referred to, vegetation, besides snowdrops and ficarias, is very late in starting.

Notwithstanding the mild weather we experience, the trees and shrubs stick to their dull wintry garb and the blossoms of the plum and cherry trees do not seem to be anxious to emerge from their winter coating. They have learned often enough that the atmospheric eccentricities at this time of the year are pretty dangerous and often convert the brightest prospect into utter failures.

At the meeting of the National Horticultural Society held on January 27 last, some plants of the curious Cyclamen Papilio were shown, which attracted the attention of all the florists. The committees awarded to this sensational cyclamen a first-class certificate with a high commendation. The great feature of the C. Papilio is that its petals are very handsomely fringed and so distinct from any other of its congeners, that were it not for the foliage few persons would take them for cyclamens. A florist next to me was right in saying that the flowers bore some resemblance to pinks or dianthus plumarius of the cyclop type, with their dark eyes in the center of the corollas and general characteristics of the flowers.

The Cyclamen Papilio is not entirely new, the first variety, of a fine red color, having been exhibited two years ago under the name of Brussel's Best, by Mr. DeLanghe-Vervaeke, at the meeting of the Casino at Ghent, when an award of merit was adjudged to it.

It is a sport from the Cyclamen Persicum giganteum, and a few flowers grown by Mr. Draps, florist at Laeken, Belgium, have been illustrated in the *Illustration Horticoles* for 1896. How is it that no more interest was centered on it at the time?

May be because the introducer asked 70 cents (American money) for each seed without giving any guarantee as to growth or constancy. Since the above date of its introduction, Mr. DeLanghe has improved to a great extent the new race, and obtained several new colors, among which Paris, Partout, white, Electric Rose, Onibus, pink. He claims that the strain is very constant, that every seed brings the true type, but may vary a little in color.

Cyclamen Papilio is a most remarkable departure from all the cyclamens known up to date and is destined to take a fine most position among pot plants. Culture same as that of C. Persicum giganteum. A colored plate of it will be published in the next issue of the *Moniteur d'Horticulture*.

Flowers in pots are a drug just now on our market. Hyacinths retailing at 4 cents and the best at 8 cents apiece. How can the growers afford to pay for the bulbs and grow the plants at such figures without losing money? On our central cut flower market large sprays of almond flowers coming from around Toulouse are just now sold. **PARISIAN.**

TARRYTOWN, N. Y.—A legal fight is in progress between the village authorities and a number of property owners here over the payment of taxes assessed last year. Among the number is F. R. Pier son, who disputes the assessment on his greenhouses and land.

**Pedigree Cannas.**

Our new Cannas, Rosemawr, Golden Pearl, Maiden's Blush, Duke and Duchess of Marlborough, Gloriosa, Sunset, Augusta, Baltimore, Philadelphia, Ac., are the very best. Write for list of new and standard varieties.

**THE CONARD & JONES CO.**  
WEST GROVE, PA.

**GERANIUMS** that will please you and prices that will suit you

S. A. Nutt, La Favorite, Heteranthus, \$2.50 per 100; \$20.00 per 1000; Beauté Poitevine, Mary Hill, \$3.00 per 100; Mme. Brumet, Frances Perkins, \$5.00 per 100. 10 varieties Colons, 4 varieties Carnations, 2 varieties Ageratum. Prices upon application.

**H. R. CARLTON, Willoughby, O.**

**DREER'S SUPERB**

**Double Fringed Petunias.**



FOR thirty-five years we have made a **Specialty** of the **PETUNIA**. This year we again offer a set of fifteen varieties, unsurpassed either in this country or abroad. The plants are well established in three-inch pots, full of vigor and will furnish quantities of cuttings in a short time.

These plants must not be compared in price with rooted cuttings or plants just potted off. The set is composed of the finest colors, especially suited for the retail trade, \$1.00 per doz.; \$8.00 per 100. The set of 15 varieties for \$1.25.

**Double Fringed Petunia Seed,** our own saving, 75 cents per 500 seeds; \$1.50 per 1000 seeds.

**HENRY A. DREER, Philadelphia, Pa.**

**Geraniums**

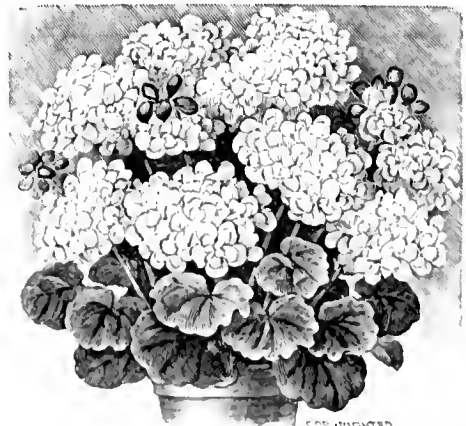
We offer a superb lot of **85,000 Geraniums** in fine condition. All are well established, in 2 1/2 inch pots, just ready for shifting to 3 1/2 and 4 inch pots, in perfect health and strictly true to name. We were awarded **Medal of Merit on Geraniums** by American Institute, 25¢ at 100 rates; 25¢ at 1000 rates. *Rooted cuttings at half the price of plants, per cent discount for cash.*

**At \$2.50 per 100; \$20.00 per 1000.**

- Scarflet.*
- Red of Gold
- Bishop Wood
- Black Knight California
- Double Grant (true)
- Earl King
- Ernst Kelway
- Fire Brand
- Fred Knust
- Gen Grant (single)
- Grand Chancellor
- Leonard Kelway
- Mrs. A. Mann
- Mme. Dupont
- M. Louis Pagan
- Beauregard
- Sons of Gen
- W. A. Chiffard
- Wm. Kelway
- Pink and Salmon*
- Barbadoe
- Beauté Poitevine
- White.*
- Alpine Beauty
- Glorie de Lorraine
- La Favorite
- Le Fontaine
- Mme. A. Chevalere
- Mrs. J. M. Carr
- Petal
- White Perfection
- White Swan
- White and Salmon.*
- Glory of France
- Granville
- Kate Edgerston
- Mme. Chas. Mohr
- Mme. Dunlap
- Mme. Thibaut
- Mary Hill
- Mrs. A. Blane
- Mrs. L. G. Hill
- Mrs. Willard
- Naomi
- Ruy Blas

**At \$3.50 per 100.**

- Bonnet
- Earl of Essex
- Flour Poitevine
- Mme. Brumet (new)
- Mme. de la Croix
- Pink Belder (new)



- Branth
- Caperne
- C. de la Baum
- F. de Gardin
- S. A. Nutt
- Hedwig Eichelner (new)
- C. de Harcourt (new)
- Montesquin
- Pierre Crozy
- Jerome
- John Doyle
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**At \$4.00 per 100 all new.**

- J. Saller
- Mme. Hoste
- Alphonse Ricard
- J. D. Chas.
- Mme. Joulin

**IVY GERANIUMS**

\$2.50 per 100. Eight sorts, including Sony, Chas. Turner

**SCENTED GERANIUMS.**

\$3.00 per 100

Special circular, describing all except the Scented-leaved varieties, mailed free.

**THE LOVETT COMPANY, - Little Silver, N. J.**

**Cleveland.**

**BUSINESS STEADY.—FLOWERS POPULAR ON ST. VALENTINE'S DAY.—RETURN OF THE DELEGATES FROM CHICAGO.—A VISIT TO DORNER & SONS'.—MILD WEATHER.**

Business has been as usual, with the demand about equal to the supply.

The use of flowers on St. Valentine's Day is increasing each year. This year there was a very marked increase in business over any preceding anniversary of the day. The demand was mostly for fine dainty flowers of all kinds, and many florists did a rushing business in flowers of that class. One or two remarked that it was "like a little Easter." A few more similar days would go far to ease the financial burdens of many a florist.

Flowers continue to improve in quality and quantity. Roses are now very good indeed. Carnations also are getting better in stem and more are being offered. Bulb stuff is coming in first class shape without much waste so far.

Prices, wholesale and retail, have not materially varied from rates quoted for some time past, although the fact that Lent is now here, combined with the probable increase in supply, will almost certainly bring about a change shortly unless business should hold up in quite an unexpected way. Roses show some slight inclination toward a drop of about a cent, which would make good grades come at about 5 cents instead of 6, which has long been the going rate for good stuff.

The party of five, Messrs. Hart, Eadie, Graham, Smith and Pentecost, who left here to go the Carnation Exhibition, got back during the week and reported a most enjoyable time and a magnificent show of blooms.

A visit to Dorner & Sons' establishment at Lafayette, Ind., was a revelation as to the possibilities in carnation culture. Mr. Dorner was a most hospitable host as well as an instructive expositor in all matters pertaining to his favorite specialty. A house of seedlings in full bloom was a sight not easily forgotten.

The winter of 1897-8 promises to go down into history as one of the mildest on record unless it takes a sudden and violent spurt very shortly. The weather so far has been almost phenomenal in point of high temperature, there having been only one very short spell of zero weather, and that of exceedingly short duration. A.

**Lenox, Mass.**

The last regular meeting of the Lenox Horticultural Society was held on Saturday, February 19. Mr. Geo. H. Thompson presided. There was a good attendance, considering the condition of the roads. The chief event of the evening was a paper on orchids read by John E. Lager. The essay was listened to with interest and pleasure by the members, Mr. Lager exhibited some exceedingly well grown cattleyas of beautiful form and color, which were much admired. There were also exhibited a splendid bunch of violets, Princess of Wales, by Mr. C. R. Russell (certificate); a vase of mignonette, Allen's Defiance, having extra large flower spikes, by Mr. A. J. Loveless (diploma); a well flowered plant of Cattleya Trianae by Mr. Wm Griffin, and a vase of sixteen Brides and Bridesmaids by Mr. Geo. H. Thompson for which he was awarded a diploma. These roses had remarkable fine stem and foliage supporting large flowers of good substance. E.

# TUBEROUS BEGONIAS

Belgian Strain, per 100. \$2.00  
English Strain, per 100. 4.00  
The English Strain of Begonias are rich in color and large in bloom.

**LILIUM SPECIOSUM RUBRUM, \$3.50 per 100**  
**LILIUM SPECIOSUM ALBUM, \$4.50 per 100**

Fine Nursery Stock such as Rhododendrons, Azaleas, Clematis, H. P. and Tree Roses.

**L. C. BOBBINK, Rutherford, N. J.**  
Branch of The Horticultural Co., Boskoop, Holland.

## The New Carnation, Cerise Queen.

READ WHAT THOSE THAT ARE GROWING IT HAVE TO SAY:

MOUNT GREENWOOD, ILL.

MR. FRED BREITMEYER,  
Mt. Clemens, Mich.

DEAR SIR:—In reply to yours for our experience of Cerise Queen, will say that under our treatment the color, form and substance is all that can be desired; we have also found it a very free and continuous bloomer and have never found a bursted calyx the whole season; it is a little weak in the stem, but we lay that to the poor place in which it is growing, also we think one should be careful and not overfeed it, as it does not need it, but produces a fine flower under ordinary care.  
Yours truly, C. W. JOHNSON.

H. DALE, Cut Flower Grower,  
BRAMPTON, ONTARIO.

MESSRS. J. BREITMEYER & SONS,

Mt. Clemens, Mich.  
GENTS:—The plants of Cerise Queen which you sent me last spring for trial have done well; the flower is of very pleasing color, stem medium length, 15 to 18 inches; habit of plant good. I shall plant it again next year.  
Yours truly, H. DALE.

DALLEDOUZE BROS.,  
FLATBUSH, BROOKLYN, N. Y.

JOHN BREITMEYER & SONS,  
Mt. Clemens, Mich.  
GENTS:—We have a few plants of your No. 16, Cerise Queen, on trial; the flower is medium size, but fine color, in fact the only fault we find is its dwarf habit; we should like to grow some for side benches, as we believe it far superior to Tidal Wave for that purpose, and should make a commercial variety, but not high priced. Please give us your best price on 1000 rooted cuttings.  
Very truly yours,  
DALLEDOUZE BROS.

GEO. A. RACKHAM, Wholesale Grower,  
DETROIT, MICH.

J. BREITMEYER & SONS,  
Mt. Clemens, Mich.

DEAR SIR:—In reply to yours asking us to my success with your No. 16, Cerise Queen, will say that I consider it the ideal Carnation of its type, very productive, continuous, stiff stem, of medium length, and holds its color longer on the plant than any Tidal Wave ever grown. I shall plant a house of it, if I am able to procure the stock.  
Yours, GEO. A. RACKHAM.

We predict CERISE QUEEN is the coming Dark Pink Commercial Carnation. Orders booked and filled in rotation. Price, \$2 per doz.; \$10 per 100; \$75 per 1000. **Mayor Pingree**—the best of all yellows. Buy your stock from the Originators. Our stock is in excellent condition; \$5 per 100; \$10 per 1000, R. C.

**JOHN BREITMEYER & SONS, Cor. Gratiot and Miami Aves DETROIT, MICH.**

## Flora Hill CARNATION

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

**E. G. HILL & CO., = Richmond, Ind.**

# NEW GARNATIONS

**For Spring of '98 Now Ready**

EVELINA, per 1000 \$80. WHITE CLOUD. GOLD NUGGET.  
MRS. S. A. NORTHWAY. ARGYLE. BON TON.

Price for strong, well-rooted cuttings, per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.

**VARIETIES OF 1897**

FLORA HILL.....  
JUBILEE.....  
MAYOR PINGREE.....  
MRS. C. H. DUHME.....  
MORELLO.....  
VICTOR.....

Strong, rooted cuttings from flats, per doz., 75c; per 100, \$5; per 1000, \$40.....

**STANDARD VARIETIES**

ALASKA.....  
DAYBREAK.....  
LIZZIE MCGOWAN.....  
MINNIE COOK.....  
WILLIAM SCOTT.....  
EMMA WOCHER.....

Transplanted plants from flats, per doz., 30c; per 100, \$2; per 1000, \$15.

CALADIUMS. Fancy Leaved, choice bulbs in named sorts, per doz., 75c; per 100 \$12.00.

## VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St.

84-86 Randolph St., CHICAGO.

**Yard Culture of Roses.**

There are three important things to be considered to be successful with the cultivation of out-door roses: First, a suitable location; second, suitable soil, and last, but not least, suitable varieties. I know of many persons who go to the woods to get light soil from old tree stumps which they use for preparing a bed for roses, and, after planting their roses in this soil and watering them carefully, feel discouraged that they do not make a strong growth.

In order to grow roses in the yard the first important thing is a good open exposure, if thirty or forty feet away from large trees so much the better. A yellow, rather heavy fibrous loam with good drainage is considered the ideal soil for roses. Spread two or three inches of well-rotted cow manure over the bed, thoroughly mix same to the depth of one foot or a trifle over. A bed prepared in this manner should grow first-class roses; if your soil is a hard, sticky clay it should be removed to the depth of fifteen inches and replaced with soil such as the above.

I have often been asked the best varieties for outdoor culture, and if I was to be confined to but three varieties, I should plant Clothilde Soupert, Mme. Caroline Testout and Kaiserin Augusta Victoria; these are three gems of the first water, perfectly hardy here, good growers and of good color. I do not wish to convey the idea that these three varieties are the only sorts we should grow as there are many handsome and satisfactory kinds which should be in every collection. I will name twelve of the varieties which have given the most satisfaction here: Clothilde Soupert, pink shading to white; Mme. C. Testout, clear pink; Kaiserin Augusta Victoria, white shading to light yellow in center; Meteor, velvety crimson; Belle Siebrecht, rosy pink; American Beauty, deep rose; La France, pink; Champion of the World, rosy pink; Mignonette, very dwarf, carmine pink; Wootton, light red; Mme. de Watteville, white with pink shadings, very beautiful; Souv. de la Malmaison, flesh color.

These varieties are all hardy in this vicinity, (except Mme. de Watteville) if planted in a well drained soil; a light covering of manure, mostly straw, thrown carelessly over the plants late in fall will be beneficial. In a later issue I will give my views on summer treatment of yard or outdoor roses.

W. W. COLES,  
Indiana

# Palmer's Hot Bed Mats

**FROST PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

**Indestructible, Cheap and Warm**

WILL not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

**MADE IN FOLLOWING GRADES:**

No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

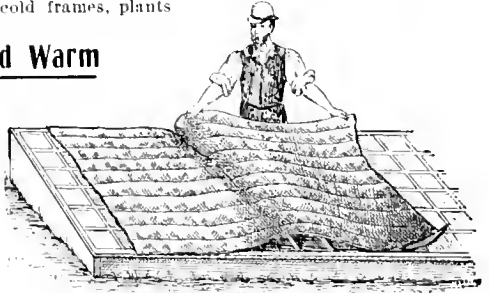
Size 40x76 inches, 50 cents each.  
" 76x76 " 75 " "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.

Size 40x76 inches, \$0.75 each.  
" 76x76 " 1.00 " "

Made any length, 76 inches wide, at 16 cents per running foot.



No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.

Size 40x76 inches, \$1.00 each.

" 76x76 " \$1.25 to \$1.50 each.

Made any length, 76 inches wide, at 20 cents per running foot.

That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Every-one using Hot Bed Mats should give them a trial.

PATENT APPLIED FOR.

WE ALSO MAKE

**QUILTED HORSE BLANKETS**

the Cheapest, Warmest and Strongest in the World....

## The R. T. Palmer Co.

Or New London, Conn.

113 Worth Street, NEW YORK

Address all correspondence to The R. T. Palmer Co., New London, Conn. Agents wanted—pay good commission.



### H. BAYERSDORFER & CO.'S

Seasonable Specialties:

**CYCAS WREATHS. MOSS WREATHS.**

**FERNERIES AND JARDINIERS:**

Norman Style in Sprays, Tinted and Delft.  
Tuscan, in Sprays, Tinted and Delft.  
Milan, in Sprays.

OUR LEADING NOVELTY:

**LACE VIOLET HANDKERCHIEFS.**

### Wheat Sheaves and Immortelles.

The largest and best stock in America.

New Catalogue of all **FLORISTS' SUPPLIES** on application. For the trade only.

**H. BAYERSDORFER & CO.,**

50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

## 'WAY UP STUFF—'WAY DOWN PRICES

AND STUFF THAT THE EVERY DAY FLORIST WANTS EVERY DAY

**Our Verbenas**

Are very fine. Rooted Cuttings, 75¢ per 100, \$5.00 per 1000. POT PLANTS, \$1.20 per 100, \$20 per 1000.

**Our Hydrangea Hortensis**

Are very fine. 1-inch pot, \$1.00 per 100.

**Our Carnations**

**Our Four New Heliotropes**

\$1.00 per 100

**Our Begonias**

\$1.00 per 100

**Our Ivy Geraniums**

\$1.00 per 100, \$5.00 per 1000

**Our Petunias**

\$1.00 per 100, \$5.00 per 1000

WHOLESALE TRADE LIST READY.

**Our Coleus**

Are very fine. Rooted Cuttings, \$1.00 per 100, \$6.00 per 1000. Pot Plants, \$3.00 per 100, 200 for \$5.00, \$20.00 per 1000.

**Our Cinerarias**

Are just right to ped up for Easter. \$3.00 per 100.

**Our Roses....**

Are right in time. We shall have a special sale on them a little later. See catalogue.

**Our Geraniums**

Are of the finest sort. \$3.00 per 100.

**Our Umbrella Plants**

Are a fine variety of color. \$3.00 per 100.

**Our Oleanders**

Are of the White and pink. \$5.00 per 100.

**Our Vincas**

Are of the finest sort. 3-inch, \$10.00 per 100. 1-inch, \$4.00 per 100.

**Our Pelargoniums**

Are very strong. Victor and F. Heintz, \$6.00 per 100, mixed, \$3.00 per 100.

**Our Chrysanthemums**

Are of the very finest sorts grown. See catalogue. \$3.00, \$4.00 and \$5.00 per 100.

**Our Farfugiums**

Are fine. \$10.00 per 100.

**Our Rose Geraniums**

Are as sturdy as oak trees. \$3.00 per 100.

**Our Feverfew Little Gem**

Are strong, bushy little fellows. \$3.00 per 100.

**Our Otaheite Oranges**

In bud, 3-inch pots, extra fine, \$10.00 per 100. 1-inch pots, \$2.00 per doz.

**Our Moon Flowers**

Are good. \$1.00 per 100.

W. L. SMITH, Aurora, Illinois.

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JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

J. C. McCULLOUGH, Cincinnati, reports trade as being fully up to his expectations.

Mr. LEM BOWEN, of D. M. Ferry & Co., spent a few days last week with relatives in Chicago; he reports 1898 trade quite satisfactory and outlook good.

The Atlantic Coast Carners Association closed a successful meeting at "The Genesee," Buffalo, the last week. Representatives from nearly all wholesale seed houses were in attendance.

NEWBURGH, N. Y.—The annual meeting of the Hudson Valley Horticultural Society was held here on February 3 and 4. One of the most important acts was the vote to change the name of the organization to the Eastern New York Horticultural Society. The papers and discussions were confined to subjects of interest to fruit growers, mainly, but on Thursday evening Prof. Van Brunt gave a beautiful stereopticon exhibition of "Old-fashioned garden flowers."

**1878 — 1898**

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JOBBER'S IN SEEDS.

Cape Vincent, N. Y.

Helpful Reminders.

Anything which is naturally dormant in the winter, that you will have use for at Easter, should be in growing position now, there is no time to spare; all bulbs which are rooted, shrubs which have been potted, lilies which show the little buds, and the various special stock which you desire for that date should be in such houses as you can best regulate. The temperature should be held steady. Particular care should be taken to have good fires on from 2 to 6 a. m. daily; that is the time of day to which most failures are charged, fires go down, and the delicate growths are damaged; and from 8 to 12 a. m. take special care of watering; your crops will not be a success unless you are most careful to comply with these two suggestions. There is not the danger of over firing now that there was in December; you may run it up if you can keep it there, but do not let temperature have a wide range. As soon as pots become fairly well filled with roots, and foliage is abundant, increase supply of water and keep sheep manure or some other good fertilizer in your barrels.

Your adiantums are starting now; clean off all the old fronds, fill in all cracks, if there be any in bed, with fresh soil; give them a top dressing, and put some sphagnum moss around any root that may be bare of old fronds; be careful that they are kept watered at the under side or the bottom. Wet the ground under heating pipes thoroughly so as to insure a constant vapor with the heat rising from the pipes to under side of bench.

Hybrid perpetual roses should be coming out in leaf now; attend closely to watering; don't syringe unless you are sure to have it fully as warm or warmer for two or three hours after. To syringe young foliage while the temperature is on the decline is dangerous.

Don't drag long pieces of hose around; iron pipes costs about one fifth as much as hose, lay it to all convenient points and carry twenty-five feet of hose easily and attach it to the different cocks; it is cheapest and much less labor. C. B. W.

Diseased Rose Foliage.

Replying to the inquiry of "Subscriber," Lawrence, Kan., in regard to the rose foliage received by mail, I think he hardly realizes how difficult it is with the meagre details furnished, and a few dried up leaves, to make any satisfactory reply. The rose grower is generally far too busy, at least I am, to spare the time needed to give such specimen a microscopic examination, and in order that I may arrive at any definite conclusion with regard to diseased plants it is important that a whole plant, stem, roots, foliage, soil and all be furnished.

I judge the foliage in question to be that of American Beauty. I have several times seen leaves of this variety similarly affected. The trouble may spring from a variety of causes, and whether or not the plants suffer in consequence will depend largely on the cause itself. Some times moulting the benches with power fumigant, or applying a top dressing of wood ashes or bone meal will cause all the leaves of the upper part of the plants to turn brown, shrivel up, and fall, in such instances I think there has been an interference with the regular flow of sap, either a quickening or the reverse. I have never been able to determine which. The only result will be the loss of a certain amount of the old foliage, if care is taken to keep the surface of the benches clean, and the soil in a condition to appropriate

the full benefit of contact with sunlight and air.

I would advise "Subscriber" to dig around some of the poorest looking plants and examine the roots very critically, to make sure that there is no eel worm at work; if the search is negative, the plants should speedily recover and be very little worse for the ordeal through which they have passed.

ROBT. SIMPSON.

PATERSON, N. J.—J. M. Hunter, of Hempstead, N. Y., has been appointed superintendent of Paterson parks.

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Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

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**Canadian Horticultural Association.**

REPORT OF MEETING HELD IN ST. GEORGE'S HALL, TORONTO, FEBRUARY 10.

The minutes of the meeting held in November last, for the purpose of drafting a constitution and code of by-laws for final discussion and adoption, were read and passed.

The president pro tem, Mr. W. Gammage, of London, then briefly laid the objects and aims of the meeting before those present: He opened his address with a grateful acknowledgment of the work accomplished by the Society of American Florists, and no less by the trade papers in forwarding and uplifting commercial horticultural interests in America. He referred to the simple and apparently insignificant commencement of the S. A. F., the remarkable strides it has made in the past thirteen years and predicted a proportionately large increase in the interest in and value of the commercial interests in Canada. The need of an organization such as the one proposed for Canada was obvious, and while he hoped nothing would be done to form a combine in the matter of prices or of labor, the best commercial interests of the trade could be best safeguarded by such an organization.

A grant he thought could be secured from the government to aid in the exhibitions to be held by the association. Another subject wellworthy of attention was the credit system which should be thoroughly threshed out and some agreement arrived at as to what limit should be set and to whom the trade will extend credit.

At the conventions the first matter should be business—entertainment, after business was completed.

The secretary pro tem read the minutes of the last meeting, which were received and adopted.

The subject of the constitution was next taken up, and each article discussed. The changes made in the draft being so slight as not to require mention. The following officers were then elected: Wm. Gammage, London, president; F. G. Foster, Hamilton, vice-president; Jos. Bennett, Montreal, second vice-president; Hugh C. McLean, St. Thomas, secretary; John H. Dunlop, Toronto, treasurer; E. H. Carter, Toronto, vice-president for Ontario; Jos. Bennett, Montreal, vice-president for Quebec; Jas. H. Harris, Halifax, vice-president for Nova Scotia. Executive board elected for one year: A. H. Ewing, Toronto; Walter Muston, Toronto; Orlando Johnston, Kingston. Elected for two years: Harry Dale, Brampton; Chas. Scrim, Ottawa; Geo. W. Mills, Toronto. Elected for three years: Thos. Manton, Toronto; Fred Mitchell, Innerkip; H. H. Groff, Simcoe.

The place of first convention was decided on as Toronto, during the second week of the Industrial Fair in September.

The secretary was instructed to have the constitution and by-laws as amended, printed and sent to the members of the association. Also to write the editor of the FLORIST for the kind wishes expressed in his letter to the association. The meeting then adjourned. HUGH C. McLEAN.

MR. NIEMEYER'S CARNATIONS.—In our report of exhibits at the American Carnation Society Convention the carnations Pluto, Uncle Sam and Goliath were erroneously stated to have been exhibited by Mr. Chas. S. Baker. They were shown by Mr. Henry A. Niemeyer, of Erie, Pa., who also exhibited Snow Queen, white, and Rob Roy light red.

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**How to Build Rose Houses.**

ED. AM. FLORIST:—Will you kindly inform me how to build two rose houses on a lot which is 30x240 feet, twelve foot drop in the 240 foot slope to the south? I would like to know the length of bars, the height of walls, and how the benches should be arranged for growing roses; and how high should they stand from the ground, and what varieties of roses grow best together in the same house?

SUBSCRIBER.

To build two rose houses on such a lot as above described, and get houses the best suitable for growing roses would be a very difficult matter unless they were simply short houses which could be built across the short way of the lot; these of course could only be forty-eight to fifty feet long, as I presume there would have to be a drive-way left at one end.

But judging from "Subscriber's" question he wants to build his houses running from south to north; in that case I should advise him to build them equal span sixteen feet wide from face of post, leaving a walk two feet wide on each side and a center walk two feet wide. This will give him two benches five feet wide each; these if two feet six inches above the ground level make it very easy to work from all points without any board walks whatever in the houses; but the greatest difficulty to overcome in his case is the elevation of his ground at the north end. "Subscriber" does not mention how much he wishes to cover either in length or width, so that one cannot form any idea of his wants, but can only give approximate figures. Presuming that he would want to have the houses each 150 feet long, he would have a rise of one foot in twenty, or a total of seven feet six inches in the 150. To heat this satisfactorily he will have to place his boiler or boilers at the south end.

For such houses as given above they should stand five feet out of the ground, running on an even grade from the lowest point to the highest, and all on a level crossways of the houses, and should have at least sixteen feet between them to give all the light possible. Set the first row of posts solidly in the ground as near the fence on one side of the lot as is safe, then set those for the other side of same house exactly sixteen feet from face of these. The sides when finished should be five feet, the bars for roof nine feet six inches long, this will give a good pitch to same. The benches should be about two feet six inches from grade level. The heating pipes should have the flows next to the outer walls and the returns under the benches somewhat distributed, as it will be a very difficult matter to keep the high end of these houses at an even temperature with the lower, and I should advise a continuous run of ventilators so that the whole or any part of it could be always under control as desired. Such houses would be better for two rows of light (not over one inch) columns, one on either side about four or four feet six inches from the ridge, with same size pipe for pulleys strapped tightly to each bar, this will keep the roof perfectly rigid at all times. Furthermore, the bars should be as light as possible, not over two inches deep, one and one fourth inches wide, and leaded glass sixteen inches wide to give all the light possible, the houses being placed at a disadvantage for clear sunlight. In such houses any or all the following varieties can be grown together, Bride, Bride and Mine Hoste, Perle, and Tom Morgans, Pres Carnot,

American Beauty, Clara Watson, Caroline Testout, etc., etc.

Houses longer or shorter can of course be made on the same principle.

JOHN N. MAY.

PARKERSBURG, W. VA.—The wife of G. A. Niehle, the florist, died on Sunday evening, February 13, aged 50 years.

**PALMS and FERNS**  
 The Largest Stock of PLANTS IN THE WEST  
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Alternanthera, Yellow, \$1.50; Red ...	\$2.00
English Ivy ...	3.00
Begonias, 5 var ...	3.00
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Ceraniums, 16 Var., 2-in. pots ...	2.50
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 Nephrolepis Exaltata Bostonensis.  
 Strong plants, 6-inch pots, \$4.00 each; \$12.00 per doz.; also three varieties of PTERIS, bushy plants, 5-inch pots, 20c each; \$2.40 per doz.  
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**Dwarf Herbaceous Perennials for Edge of Border.**

ED. AM. FLORIST:—Will you kindly inform me, through the columns of your paper, what you consider a few of the best hardy herbaceous perennials to use around flower beds in place of sods; something that will stand 20° to 25° below zero, and at the same time not be very tall. G. G.  
Leominster, Mass.

Your correspondent does not give any information in regard to soil or situation, which are important items in estimating the hardiness of species, so I can only name a few that generally do well in his latitude.

There are a dozen or more genera that furnish us with low dense growing, but still manageable plants, for such uses.

As one of the best in every respect I should take Phlox subulata, which gives, in addition to its mat of perennial green, a sheet of bloom in the spring. Of this there are several good varieties varying in color from pink to white. A little taller are P. amœna, P. ovata and P. reptans.

The genus Dianthus gives us some very desirable border plants; the dwarfiest of which is D. deltoides, a lovely little thing which makes a low dense mat of foliage, and is literally covered with a mass of small rose or white blooms for several months. Then there is the old "sweet May pink" which used to be so common as an edging the old-fashioned New England gardens. D. cœsius, D. cruentis, D. dentosus, and D. petraeus are all good and all hardy with us on well drained ground. Of the taller growing species there are several. The pinks nearly all

have the advantage of being evergreen, and so are of value in winter as well as in summer.

Campanula Carpathica makes a very neat plant for edges and is beautiful in both leaf and flower.

The dwarf irises are excellent plants for the purpose; for instance I. cristata and I. pumila. Some of the taller ones like I. Germanica are admirable. Some of the yarrows are useful, too; the red flowered form of the European A. Millefolium, the yellow flowered A. tomentosa and others. And then we have the sedums in half a dozen or more species, thrifts, arabis, Saponaria ocymoides, aubrietias, Crucianella stylosa, which is very good, several low-growing veronicas and the cotyledons, such as C. tetrorum, C. Ruthenicum, C. sempervivum and C. Verlotii.

JOHN F. COWELL.

Botanic Garden, Buffalo.

**Florists Win a Victory.**

The commissioners favor the bill now before the House to prohibit the sale of flowers from government greenhouses. They reported to Chairman Babcock to this effect. The verdict by the commissioners is considered a victory by the florists, although they are not entirely satisfied.

Rooted Carnation Cuttings, Pure, Healthy, No Rust.	per 100, \$1.00
Daybreak	1.00
Alaska	1.00
Lizzie McGowan	1.00
Albertini	1.50
Jubilee	1.50
Delta Fox	1.50
Ivory	1.50
Triumph	1.50

Well packed and delivered at American Express Office. Cash with order.  
**LE MARS GREENHOUSES,**  
W. F. Will, Manager. Le Mars, Iowa.

**50,000 ROOTED CUTTINGS**

**CARNATIONS**  
Rose Queen, \$1.25 per 100, or \$10.00 per 1000; Jubilee, \$2.50 per 100, or \$20.00 per 1000; H. Keller, W. Scott, Tbos. Cartledge, \$1.00 per 100, or \$7.50 per 1000; Lizzie McGowan, 75c per 100, or \$6.50 per 1000; Harlaon's White, Eldorado \$2.00 per 100 or \$15.00 per 1000.

**CHRYSANTHEMUMS**  
Two-inch pots  
Major Bonaffon, \$3.00 per 100 or \$20.00 per 1000; The Queen, Pink Ivory, \$3.00 per 100, \$20.00 per 1000; President Smith, Eda Prass, \$2.00 per 100, or \$15.00 per 1000.

**VIOLETS**  
Marie Louise \$6.00 per 1000; Double Alysum, 2-inch pots, 75c per 100. Cash with order or satisfactory reference.

**PAXTON GREENHOUSES,**  
C. E. Taube, Prop. Harrisburg, Pa.

**50,000 Flat-Grown CARNATIONS**

STRONG STOCK.	per 100	per 1000
Daybreak	\$2.00	\$15.00
Scott	2.00	15.00
Rose Queen	2.00	15.00
Tidal Wave	1.50	12.00
Portia	1.50	12.00
Kob Roy (new)	10.00	
Jubilee	3.00	
Snow Queen	10.00	
Silver Spray	1.50	12.00
L. McGowan	1.50	12.00
Eldorado, Meteor	2.00	
Flora Hill	5.00	
Triumph, Armazindy	3.00	
Pluto, new, and Uncle Sam, new, both varieties	10.00	

Cash with order. HENRY A NIEMEYER, Erie, Pa.

**NATHAN SMITH & SON**

Wholesale Florists

Specialties  ADRIAN, MICH.

CHRYSANTHEMUMS


CARNATIONS 

AND VIOLETS 

\*\*\* CORRESPONDENCE SOLICITED \*\*\*

**PALMS**

Large Healthy Stock.

ALL MEASUREMENTS ARE FROM TOP OF POT. 

**Areca Lutescens**

3 plants, 4-in. pot, 12 to 15-in. high, per 100.....	\$20.00
3 " 5-in. " 15 to 18-in. " " " .....	40.00
3 " 6-in. " 24 to 32-in. " each.....	1.00
3 " 7-in. " 32 to 36-in. " very bus'y ea.	1.50
3 " 8-in. " 36 to 42-in. " " " " 2.00	
3 " 8 in. " 42 to 48-in. " " " " 2.50	
1 " 10 in. " 4 to 5-ft. " " " " 5.00	

**Latania Borbonica**

2½-in. pot, 3 to 4 leaves, per 100, \$4; per 1000	35.00
3-in. " 4 to 5 " " " 8; " " "	70.00
4-in. " 4 to 5 " " " 20.00	
6-in. " 5 to 6 " 18 to 20-in. high and wide.....	.75

**Cocos Weddeliana**

1 plant, 5-in. pot, 25 inches high, each..... 75

**Kentia Belmoreana**

2½-in. pot, 3 leaves, 8 to 10-in. high, per 100... 14.00  
3-in pot, 4 to 5 " 10 to 12-in. " " " ... 20.00  
5-in. pot, 5 to 6 " 18 to 20-in. " each..... 1.00

**Kentia Forsteriana**

5-in. pot, 4 to 5 leaves, 24 to 30 in. high, each, 1.00  
6 in. pot, 4 to 5 leaves, 30 to 36-in. high, each, 1.25

**JOSEPH HEACOCK,**

WYNCOTE, NEAR PHILADELPHIA, PA.

Mention the American Florist.

**The Growing of Mushrooms.**

The preparation of material and selection of good spawn are the two essentials necessary to a good crop. The growers around Kennett Square have to depend on city stables for good fresh horse manure, which is obtained by the carload, commencing early in October. This is turned three or four times to sweeten up and allow the violent heat to escape before putting under the benches of our carnation houses. Some growers use about one-fifth loam mixed with the manure, a little at each turning, but equally as good results are obtained without this extra bother. Both systems have their advocates about equally divided, with the chances of success or failure nearly the same.

The manure is thoroughly pounded down, and when the beds are completed, they are about eight to ten inches deep. These are allowed to remain in this state until the thermometer falls to 90°, and are then spawned.

A brick of spawn is cut in twelve pieces, which are inserted nine inches apart each way, about one to ten inches below the surface. Some growers ease at once with two inches of any good soil; others wait ten or twelve days, or until the spawn can be seen running in the manure. After casing, the beds are usually covered with a light sprinkle of hay or straw, to prevent them drying out too much. Nothing further is done until crop commences to show, which often varies considerably; sometimes in four weeks, sometimes not

until eight weeks, when a thorough watering (warmed to 80° or 90°) is given, after which water should only be given when beds are dry.

The mushrooms are picked just as they are about to unfold, packed in four pound baskets and shipped every day to

our near markets. They must be handled quickly when ready, and are generally consigned to commission produce dealers. The crop when growing requires constant care in keeping beds cleaned of old roots, and seeing that the proper moisture is retained.

WM. SWAYNE.

# Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

## HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

### A RUST PROOF CARNATION FOR BUSINESS.

# FIREFLY

Bright scarlet and *POSITIVELY RUST PROOF*. As productive as Scott. Rooted Cuttings Feb. 15th, \$10 per 100, \$75 per 1000. Send for descriptive list of Firefly and fifteen other novelties of '98, fifteen varieties of '97 and older standard sorts.

GEO. MANCOCK & SON, - GRAND HAVEN, MICH.

## \$100 REWARD

will be paid for any RUST found in our Carnations. All Pure and Healthy. Throw out that old RUSTY Stock, begin anew with clean stock.

WE HAVE NICE ROOTED CUTTINGS, A NO. 1.

Meteor.....	.....	Form King.....	\$1.50 per 100
Stuart.....	.....	Daybreak.....	.....
Goldfinch.....	\$1.50 per 100	William Scott.....	\$12.50 per 1000.
Albertina.....	.....	Nice specimen plants Geranium La Favorite, 6-In 20 ea	.....
Bridesmaid.....	\$12.50 per 1000	Callas, 5 1/2 ch. just right for Easter, \$15.00 per 100.	.....
Uncle John.....	.....	Primulas 3-Inch, \$4.00 per 100.	.....

McDONALD & STEELE, 109 S. Washington St., Crawfordsville, Ind.

# 91 POINTS

New Carnation



# ARGYLE

Wins Certificate at Chicago. Don't delay your orders and get left. . . .

Cuttings from sand, \$2.00 per doz.; \$10 per 100; \$75 per 1000.

Twenty-five (\$25) dollars will be offered for the best 50 blooms at November Show held in Chicago.

STOLLERY BROS., ARGYLE PARK, Chicago, Ill.

## Do Not Buy Carnation Cuttings

At a less price than it costs to grow them and expect good stock. Our prices are as low as good stock can be sold for.

White Cloud.....	.....
Gold Nugget.....	.....
Empress.....	.....
Mrs. Frances Joost.....	\$ 2.00 per doz.
Wellesly.....	10.00 per 100
Conch Shell.....	75.00 per 1000.
Psyche.....	.....
Painted Lady.....	.....
Daybreak.....	\$2.00 per 100, \$18.00 per 1000
Jubilee.....	\$ 3.50 per 100, 30.00 per 1000
Eldorado.....	.....
Meteor.....	\$ 2.00 per 100
Bridesmaid.....	15.00 per 1000

FLORA HILL.....	.....
C. A. Dana.....	\$ 5.00 per 100
Victor.....	40.00 per 1000
Morello.....	.....
Mayor Pingree.....	.....
Nivea.....	\$ 3.00 per 100
Edith Foster.....	25.00 per 1000
Jahns.....	.....

Alaska.....	.....
Scott.....	\$ 1.50 per 100
McGowan.....	12.00 per 1000
Triumph.....	.....
Mrs. McBurney.....	\$ 2.50 per 100
H. Keller.....	20.00 per 1000
Armazindy.....	.....

H. F. LITTLEFIELD, Worcester, Mass.

# EVELINA

Is the grandest mid-winter carnation extant. This is the unanimous opinion of all who have seen it growing and predict for it a grand future. ♡ ♡ Surpasses Wm. Scott.

R. WITTERSTAETTER, Sedamsville, O.

Send for our new and improved list of 1000 varieties of carnations and their prices, sent out of Evelina.

Fern Notes.

Osmundas. All of this family may be recommended as being very useful for decorations, the only drawback being that they take a long time to make plants of any size, and with the exception of *O. palustris* they are deciduous; besides being evergreen, this is also one of the handsomest ferns we have. It is grown to some extent for market work, and is found very useful either in a small state, or when grown on into larger specimens. It is of light and graceful habit, the young fronds prettily tinted with bronzy red. The North American *O. gracilis* (*spectabilis* but is deciduous, it is also of more spreading habit. I have seen two distinct varieties, one with quite pale green fronds the other having a dark bronzy shade. Our native royal fern, *O. regalis* makes a fine plant when well established, it is also useful in a small state, some of our growers go in for it extensively, chiefly for selling in 2½ or 3-inch pots. The soft pale green being a nice contrast to most other ferns.

As I have previously stated, the osmundas are very slow, they are also very uncertain about the time of making their first fronds, sometimes remaining some months in the prothallia stage. It is not difficult to distinguish them before they make their first frond, the prothallia being large and very distinct in appearance. I should mention that to ensure saving good spores, they must be taken while the capsules appear green; the true spores are of a dark green color, and drop out before they have the appearance of being ripe, consequently it often happens that only the brown capsules, which rub off in a dust-like powder are sown, hence failure.

*O. cinnamomea*, and *O. Claytoniana* are both handsome ferns, but I have not yet succeeded in raising seedlings, and should be glad to hear if any difficulty is experienced in raising these in America. It may be that I have failed through not being able to get perfectly developed spores. I find with some of the tree ferns that spores taken from comparatively young plants grown in a close atmosphere will invariably fail, while there is little difficulty in raising seedlings from spores collected from more matured specimens, which have been growing in a dry, airy position. I believe this also applies to many other ferns. I might refer to the beautiful *Onychium auratum*. I once received quite a small portion of a fertile frond from India and from this I raised quite a nice batch of seedlings, but I have rarely succeeded so well since, though I have had what appeared good spores in great abundance. In *Onychium Japonicum*, it is quite the reverse, for spores are never very plentiful, though they rarely fail to germinate. I have had other instances of failure from what, to all appearances, were good spores. Of course failure often occurs through some fault in treatment, but where after repeated trials, failure follows, with one particular sort, while all others under the same conditions succeed, it can hardly be the treatment that is at fault.

A. HEMSLEY.

Carnations  
Chrysanthemums

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

NEW GARNATION  
"Mrs. S. A. Northway"

A soft shell pink, developing to nearly pure white.

OUR MASTERPIECE.

We shall commence shipping soon.

Orders booked now and filled in rotation. . . .

PRICE: PER 100, \$10.00.  
PER 1000, \$75.00.



Newer Geraniums.

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2½-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.

GENERAL LIST OF GERANIUMS.

A superb stock in quality and variety of all the finest sorts, from 2¼-in. pots, named. \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.

Fuchsias.

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.

W. P. SIMMONS & CO.

Make the following statement to the readers of the American Florist.

As originators and introducers of  
"Silver Spray,"  
"Tidal Wave,"  
"Daybreak,"  
and "Rose Queen,"

each of which has, we believe, proven even better than we claimed for them. We NOW say for 1898 that

"Mrs. S. A. Northway"

possesses all the good points that go to make up a first-class and profitable cut flower sort, and that we introduce it with even more confidence than we did the others.

It is an extra strong grower. It is free from rust or disease. It is a profuse bloomer. It has exceedingly strong stiff stems.

It is of exquisite form full and double.

The flower is high built, petals serrated.

The calyx does not burst.

It is delightfully fragrant (a quality lacking in many new ones.)

SEND FOR IT.

OUR PRICE LIST now ready, contains prices on many other plants.

W. P. SIMMONS & CO., Geneva, Ohio.

A carnation that anyone can grow.

The New Commercial White **GENESEE**.

A year ahead of 1898 competitors.

Offered strictly on tested merits.

You are not asked to rely on speculative ideas as to probable future success. But instead, we give you FACTS from SEVEN RELIABLE GROWERS who tested it in the past season in so many sections of this great country of ours.

All about it, with prices, in our handsome 12 page illustrated circular FREE.

DAN'L B. LONG, Sales Agent,  
BUFFALO.

SOUTH PARK FLORAL CO., New Castle, Ind.

AT THE MEETING OF

American Carnation Society

WE GOT FIRST PRIZES ON . . .

NOT SO NEW

ALBERTINI  
HELEN KELLER  
AND ALASKA

as some, but the flowers were so fine they attracted a great deal of attention. We have very fine rooted cuttings of the above for sale. Write for prices on them and other varieties.

**Purplish Pink Geranium.**

ED. AM. FLORIST:—Can you or any of your readers tell me the name of a double geranium which is very common in the Cleveland market, and described as a "purplish pink?" SUBSCRIBER.

The question is too indefinite, as the conception of color varies too much to convey any accurate impression as to what is meant by purplish pink. It might be anything between Emil Girardin and Dr. Kirtland, and would include some salmon pinks when grown outdoors. Bailey's Pink, a new one of local origin and darker than Girardin, might possibly be the one meant, although in the absence of any specimen of the flower one cannot be at all certain. ADAM GRAHAM, Cleveland.

**Not Puritan.**

ED. AM. FLORIST:—I see by your last issue there is quite a belief that the carnation Harrison's White is believed to be the Puritan. I say it is not the Puritan but a sport from Wm. Scott. Mr. Woods also stated that it was not the Puritan, and he was the originator of the Puritan. The same day that Mr. Woods was here Mr. Ward was here also. I showed Mr. Ward a plant that I had photographed, and he said that if he had seen that plant before he formed his opinion, he would never have come to the conclusion that it was the Puritan. I believe there were some blooms analyzed. As far as I heard they proved to be identical in many respects with Scott. JOHN HARRISON.

**New CARNATIONS.**

- WHITE CLOUD—White.
- GOLD NUGGET—Yellow.
- NEW YORK (Ward)—Bright cerise pink.
- MRS. JAMES DEAN (Ward)—Clear silvery pink.
- JOHN YOUNG (Ward)—White.
- BON TON (Ward)—Scarlet.

Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Wittestaetter), Firefly (Hancock), Pyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Summons).

All good 1897 novelties and other standard varieties at reasonable prices.

**New Chrysanthemums.**

- MRS. C. H. PERCE—Yellow.
- 35c each, \$3.50 per doz., \$25.00 per 100.
- SNOW QUEEN—White.
- 75c each, \$7.50 per doz., \$35.00 per 100.
- MERRY CHRISTMAS—Late White.
- 35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List Ready January, 1898.

**F. DORNER & SONS CO.**  
LAFAYETTE, IND.

**NEW CARNATION....**

The argyle  
brighter than  
sun  
intended

**Empress**

Send for price list of above.  
New and Standard Sorts....

**WM. SWAYNE, Box 226, Kennett Square, Pa.**

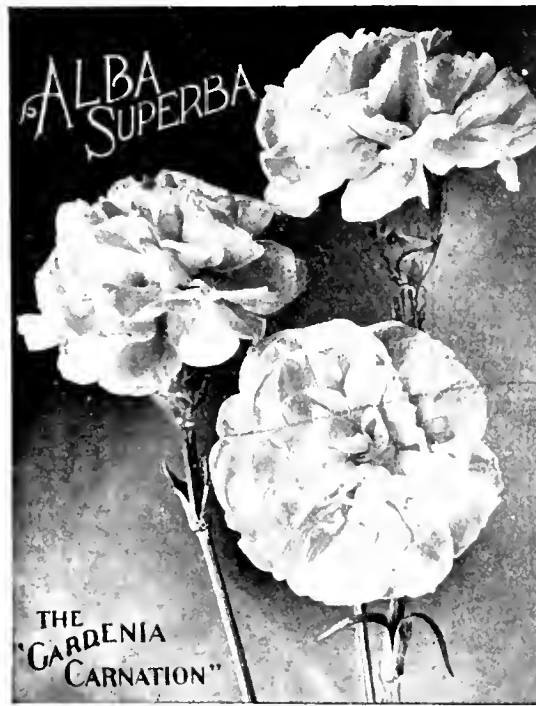
**TELEGRAPH CODE**  
OF THE  
**AM. SEED TRADE ASSOCIATION**

NO. 00.

In either side or flexible cover

Address orders to

**AMERICAN FLORIST CO.,**  
CHICAGO.



Send for circular with description and photos showing the beauties of this grand white.

**Alba**   
**Superba**

You will find upon trial to be an all round good carnation, with the qualities required in a money-maker. It is pure white. Never bursts its Calyx. Good size. Free and perpetual bloomer, and in length and strength of stem has no superior.

**Plants Ready March 1st.**

\$10.00 per 100  
\$60.00 per 1000



**John Burton**  
Chestnut Hill,  
PHILA., PENNA.

**THE BEST OF THE NEW PINK CARNATIONS**

**Mrs. Frances Joost.**

A WINNER EVERYWHERE.

\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. Cash with order.

**C. BESOLD, Mineola, L. I., N. Y.**

**Experiences**  
... WITH ...  
**CARNATIONS**

The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants. I guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.

**ALBERT M. HERR,**  
.... LANCASTER, PA.

**WANTED** Carnation growers to look into the merits of  
**NEW CARNATION "ARGYLE"**

and be convinced that it is the coming commercial variety of its color.

READY MARCH 1st. Price, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000.

Send for circular for full description and a select list of money makers in Chrysanthemums.

**STOLLERY BROS., Argyle Park, CHICAGO.**

**CARNATIONS**

STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later

Including: Morello, Flora Hill, Daybreak Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**  
Lock Box 11. GRAND RAPIDS, MICH.

**CARNATIONS**

FROM SAND OR SOIL

- DAYBREAK \$1.25 per 100, \$10.00 per 1000
- TIDAL WAVE 1.25 per 100, 10.00 per 1000
- McGOWAN 1.00 per 100, 8.00 per 1000
- WM. SCOTT .75 per 100; 7.50 per 1000

CASH WITH ORDER.

LAKE GENEVA FLORAL CO., - Lake Geneva, Wis

**BAKER'S NEW CARNATIONS.**

Grown and tested five years.  
**ONEIDA** Pure pink, healthy; no rust; continuous producer; largest size bloom.  
**RED JACKET**—Bright red, fine stem and calyx; continuous cropper. \$10.00 per 100.  
Orders booked now to be filled in rotation as fast as rooted.  
**C. F. BAKER, Utica, N. Y.**

**SELECT ROOTED CUTTINGS**

FROM STRONG HEALTHY STOCK.

- CARNATIONS** Scott, McGowan, Carlodge, Tidal Wave... \$1.50 per 100.
- ROSES** Brides, Bridesmaids, Meteors... \$1.50 per 100.

Very best commercial varieties of 'Mums. Write for prices.

**W. H. GULLETT & SONS, - Lincoln, Ill.**

Say "saw your ad. in the Florist" when you write advertisers.



Cincinnati.

CUT FLOWER TRADE BETTER.—SUPPLY SHORT.—REMARKS ON THE CARNATION CONVENTION.—D. R. HERRICK SICK.

Cut flower trade has been better the past few days, and the shortage in supply still continues. There has been a brisk demand for all good stock of roses and carnations, and the outlook for an increase in the supply is not very flattering. Dinners, weddings and the natal day of this nation's first president, which was fittingly observed in and about the Queen City with imposing street parades and several swell banquets, made a good call for quantities of cut flowers. Violets and bulbous stuff are plentiful.

Mr. Frank Ball, of the H. L. Sunderbruch Co., when asked regarding trade, gave the following reply: "Business good, stock very scarce."

The delegation of thirteen (the unlucky number) came back from the convention all well pleased, and spoke in the highest terms of the treatment they received at the hands of the Chicago brethren. Mr. Will Murphy was the first to make his appearance, and said, when approached about the banquet, "Well, the boys up there had wine at the banquet, which was an improvement over ours." Mr. A. Sunderbruch was well pleased with the arrangements of the hall and the display of carnations.

"The vase of American Beauty I saw there, will linger in my memory as long as I live," said Ben George. "Flora Hill will be grown extensively," I heard Mr. J. Paterson say; she looked at her best. "Evelina was right in it, a pity Dick didn't enter it for the 100 bloom contest," was the remark made by E. G. Gillett.

D. R. Herrick, of the S. S. Jackson nursery, I regret to say, has been confined to his bed with a severe attack of kidney trouble, and from latest reports is seriously ill. We wish him a speedy recovery.

Mr. M. Rice, of Philadelphia, was a caller this week. H. SCHWARZ.

FORT WORTH, TEX., Feb. 16.—Baker Bros., florists, have suffered loss by fire.

HOW TO GET RICH.

By Wm. K. Harris.

Stop here, my dear friend, and read this bright page.

It tells how to provide for ripe old age. The riddle is plain, just give it a thought. 'Tis selling goods high that were cheaply bought.

That active manhood may provide for old age, I offer the following plants at a reduction of from 20 to 25 per cent, less than my autumn price, after many months time has increased their size and beautified their growth.

Philadelphia is the center of the nation for decorative plants, and my stock is the Standard of Excellence by which all others are measured; so when you buy my stock at a low price, you are buying cheap indeed. One may say, "You know the secret that provides for old age. Why give me that which you hold within your own grasp?" The answer is—"I must have room for Easter bloom, that fragrance may blend with the beauty of the day.

Table listing plants and prices: Pandanus Vetchill in 8 in. pots, Cocus Weddelliana, 3 plants in 5-in. pot, etc.

Dracena Sanderiana (new), Livistona Roundifolia, Rubber (Ficus Elastica), Pandanus Utilis, Large Arecia Lutescens, Orange tree, Oranges in bloom and in fruit, and much other fine stock at usual prices.

WM. K. HARRIS,

55th St. and Springfield Avenue, PHILADELPHIA, PA.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000. NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbenas in the country, Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

VERBENAS.

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$30.00. New Yellow Marguerite finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Table listing various plant varieties and prices: CANNAS, Crozy, Brouvier, Marquant, Italia Austria, etc.

CASH WITH ORDER

WM. McROBERTS, Jr., Govanstown, Md.

GERANIUMS

BEGONIAS

and FUCHSIAS

SELECT NEW and good old standard sorts, the best to be found, up-to-date. 25 Flowering Begonias, and a good assortment of Market Fuchsias. Let us know what you want and we will quote you prices low enough.

J. NICOL

Oak Street, JERSEY CITY, N. J.

GREEN AS GRASS.

MAMMOTH VERBENAS

Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6.00. Cash with order.

FRANK S. PAYNE, Barnard Crossing, N. Y.

CLEMATIS

Jackmanni, Henryii doz. 100 and others, \$3.00 \$20.00

H. P. Roses

Strong, 2 and 3 years own roots, \$1.50 \$10.00

REO JACKET GOOSEBERRY, only large native red, .75 \$4.00

DOWNING, best for general crop, special prices.

PAEONIES, fine ass't of colors and kinds \$1.25 \$8.00

SMILAX, extra strong plants, \$2.50

F. A. BALLER, Bloomington, Ill.

PELARGONIUMS

12 LEADING KINDS, \$4.00 per 100.

VERBENAS 25 of the best named varieties, Rooted Cuttings, 60c per 100. Express prepaid. Cash with order.

S. D. BRANT

THE CLAY CENTER FLORIST, CLAY CENTER, KAN.

PELARGONIUMS.

VICTOR and MME. VIBERT, the two great market varieties, \$4.00 per 100. I also have a lot of fine stock plants of the above and others which will make fine specimens for 6 or 8-inch pots. Just the thing for Easter; 25 cents each; \$3.00 per doz.

A. C. LAMPRECHT, Ashland, Ohio. Mention American Florist.

BOUGAINVILLEAS.

Beautiful for "cutting" or pot sale. Free and durable, and blooming for four to six months of the year. Very easily handled and not subject to any insect pests.

Send for "Comments and Facts."

THEO. F. BECKERT, Glenfield, Pa. 9 miles below Pittsburgh, Pa.

The Cottage Gardens QUEENS, L.I. Specialties in CARNATIONS, CHRYSANTHEMUMS, CANNAS, GERANIUMS, DAHLIAS. SEND FOR OUR PRICE LIST

KLONDIKE

Cold Fields at your door.—CERANIUMS.

Grown in soil in flats, ready to shift into 3-inch pots. \$15.00 per 1000 S. A. Nutt. Beaute Poltevine, Mrs. E. G. Hill, Van Dael and Robt. Brett; the same in 2 1/2-inch pots, \$30.00 per 1000.

Standard sorts, such as double Grant, Bruanti, La Fayette, La Favorite, Le Pilot, Gloire de France, Hoff Beech, Wonder, Mrs. J. M. Gaar, Jules Ferry, Centaurea and others, \$12.00 per 1000. In 2 1/2-inch pots, \$18.00 per 1000. Mountain of Snow, in 2 1/2-inch pots, \$2.50 per 1000. Mme. Salleron from flats, \$1.25 per 100 \$10.00 per 1000.

Ageratum, blue and white, from flats, 75c per 100 \$6.00 per 1000. Fuchsias, standard sorts, from flats, \$1.50 per 100, \$12.00 per 1000. Feverfew Little Gem, from flats \$1.50 per 100 \$9.00 per 1000. Selection of sorts to remain with us. Cash to accompany all orders.

Double Petunias, extra fine strain for flats \$1.50 per 100; \$12.00 per 1000. Variegated Vinca, rooted cuttings \$1.50 per 100; \$12.00 per 1000. Anthemis, Cineraria, Double Golden Marguerite, rooted cuttings \$1.00 per 100; \$8.00 per 1000. Ferventia Splendens, rooted cuttings \$1.00 per 100; \$8.00 per 1000.

COLEUS, assorted 2-inch pots \$15.00 per 1000 rooted cuttings \$4.50 per 1000; C. Verschaffeltii and Golden Queen, 2-inch pots \$18.00 per 1000; rooted cuttings \$6.00.

J. E. FELTHOUSEN, Schenectady, N. Y.

AZALEA INDICA

We have an immense stock of all the best varieties, extremely full budded, of the following large size: 12 to 15-inch, \$8.00 per dozen; \$45.00 per 100. CINERARIAS, 5-inch, bud and bloom, \$1.25 per dozen. Double Golden Marguerite Cuttings, by mail, \$1.50 per 100.

WHITTON & SONS, Wholesale Florists, City and Green Sts., UTICA, N. Y.

WHY NOT . . . . Advertise and sell some rooted cuttings or other surplus stock. THIS SIZE "AD." ONLY \$1.00. AMERICAN FLORIST CO., CHICAGO.

LETTUCE AND OTHER... VEGETABLE PLANTS

LETTUCE Big Boston, Boston Market, Tennis Ball Grand Rapids and Relenner's Foreign, 15 cts per 100; \$1.00 per 1000

TOMATO, CABBAGE and CELERY—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000. CAULIFLOWER, Snowball—35 cts per 100; \$2.50 per 1000; 31 by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.

Say "saw your ad. in the Florist" when you write advertisers.

Detroit.

A recent hurried look in the retail places of business was made one day last week. We noticed as follows:

Geo. Leadley looked good natured in his always neat and attractive store. The choice stock seen in his windows could hardly be called on to divide any honors. Trade he calls good this season, and incidentally mentioned a renewed demand for tulips, he recently making use of 1200 of them at one occasion.

Breitmeyers' showed the usual animation invariably going with this establishment, all hands fairly busy, with flowers none too plenty. Their new and fancy kinds of carnations, which Fred. Breitmeyer, at their Mt. Clemens houses, so well knows how to grow, this season are an especially attractive feature.

Andrew Ferguson on Willis avenue has a well equipped place for custom trade. He shows some well flowered double tulips in pots thus early. Two-foot square flats of other kinds of tulips show to good effect, being a departure of a certain attractive character compared with ordinary smaller boxes. We saw here also some fine freesia blooms.

B. Schroeter was busy delivering azalea "boarders." He has reduced the feature of the care of plants for customers to a system, in methods of handling, so it is done reliably to patrons and satisfactory in remuneration to himself.

We here met W. J. Pearce, of the Pontiac Floral Co., growers, of Pontiac, Mich. Mr. P. claims good success with Day-break this season, a fact attested to by the good color and sturdy make-up of the blooms he showed, and Silver Spray is still doing fairly with him. Several houses of rose stock received a foul—almost knock-out blow—from a wrongly applied stimulant.

J. F. Sullivan claimed a busy week, and to all appearances is prospering. His roomy store and connected conservatory gives ample facilities for easy handling of a large business. He is a steady patron of Chicago growers for roses. Bulb stuff in Roman hyacinths, valley and tulips are a leading item of his own growing, which have sold well this season.

Robert Flowerday, of the Detroit Floral Co., was next to ill-humored from the scarcity of bloom, with additional orders coming in for attention. Naturally he called trade good. L. B.

Worcester, Mass.

We are in the midst of an ice storm, the most destructive that we have experienced for many years. In many cases huge elms that have stood nearly a century are entirely ruined, the damage to the various parks in the city must be very great, but at this writing, it is impossible to ascertain the full extent.

The completely gutted block adjoining the property of the horticultural society, but fortunately was confined to the Paper Theatre block, and the only damage to the society's property was by smoke and water. The loss has not been adjusted yet, but will probably amount to \$300 or \$400, fully insured. Wm. Goode and wife, who were sleeping on an upper floor, had a narrow escape from suffocation.

Trade is running along evenly, and florists are disposing of about all they can grow at regular prices.

Dark weather has shortened up the supply considerably, especially in carnations.

We have had considerable funeral work lately. A. H. L.

DAHLIAS WHOLE ROOTS.

Fine collection of varieties including Wm. Agnew, Nymphaea, John Bragg, Oban, Zulu, Beauty of Brentwood, etc., etc. Our selection, twenty varieties to a thousand, \$50.00. Purchaser's selection, twenty varieties to a thousand, \$60.00.

Wm. H. Moon Co.

Glenwood Nurseries MORRISVILLE, Bucks Co., PA.



30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name. W. W. WILMORE, Box 382, DENVER, COLO.

Two Great Sports

CARNATION

VICTOR

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth. Rooted cuttings now ready, \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

CHRYSANTHEMUM

PENNSYLVANIA

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$35.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

PEACOCK'S PRIZE WINNING DAHLIAS

Did you know that in 1896 Peacock's Dahlias were awarded sixteen (16) first prizes at Philadelphia out of seventeen entries? And at the American Institute, Madison Square Garden, New York, the seven first prizes (all that were offered) and two special diplomas for Clifford W. Bruton and Wm. Agnew? That last year (1897) at New York, they were awarded six of the seven first prizes and The Medal of Superiority of the American Institute, the highest award ever given Dahlias in America? That at Philadelphia—well, we won't say anything, as they were not in competition; but, read what the Philadelphia Record of Sept. 22, 1897, says:

"Prominent above all the other exhibits is that of the Dahlia Society itself. It includes an almost perfect assortment of all the Dahlias known in this country, grown by W. P. Peacock, of Atco, N. J., but it was not in competition for prizes."

New Illustrated Descriptive Wholesale Catalogue now ready; send for it before placing order elsewhere.

W. P. PEACOCK, ATCO, N. J.

Mention American Florist.

"BOSS" Chrysanthemums

Distributed March 1st by leading firms and the grower, .....

WM. H. CHADWICK—the grandest white novelty of the season. THE YELLOW FELLOW—Winner of \$100 Stearns bicycle prize. MADELINE PRATT—"As pretty as her picture." .....

Grove P. Rawson, Elmira, N. Y.

Jardinieres, Pots AND Pedestals



ADAPTED TO

Florists' Use.

Artistic Shapes and Decorations.

Write us for Illustrations and Prices....

BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.

Mention American Florist.

**Bloomington, Ill.**

Of course the recent carnation exhibit held in Chicago proved an interesting subject and Mr. Washburn, like many other carnation growers who have studied the nature of the divine flower, speaks enthusiastically as to its future. The four-inch carnation on a correspondingly long and strong stem is, in his opinion, within the reach of the average florist. In retailing the results of its experience the carnation society, as a body, is doing a noble work and its services to the craft are inestimable. Petty jealousy and malice as shown by the New England contingent for example can never check the progress of the society's lofty aspirations. It goes without saying that I fully coincide with Mr. Washburn in his opinion.

Since my last visit, things in general have assumed a much brighter aspect. Choice stock is in demand and fair prices rule the market.

Mr. Washburn has added a handsome and commodious conservatory to his flower store and has likewise equipped the latter with a complete seed department.

Mr. M. T. Hempstead will add fifty feet to one of his houses and will give his entire plant a thorough overhauling.

Homo.

GENEVA, O.—W. P. Simmons, the well known florist of this city is dead. He was 81 years of age, and was a resident of Geneva for thirty-seven years. Mr. Simmons was head gardener at Eaton Hall, England, before coming to this country.

**PANSIES**

The Jennings Strain of Finest Mixed Pansies... Medium size, \$5 per 1000 express; 75¢ per 100 by mail. Seed of above, \$1 per packet; \$6 per ounce. **Aster Seed**, Simple's pink, \$1.50 per ounce. Large Pansies in bloom, ready March 20th. Cash with order.

**E. B. JENNINGS, Southport, Conn.**

Lock Box 254. Grower of the Finest Pansies.

**FAXON'S "WHITE HOUSE" PANSIES.**

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

**M. B. FAXON,**

Lock Box 1528. BOSTON, MASS.

Correspondence solicited.

**Aster, Verbena & Pansy Seed**

Truffaut's peony-flowered Perfection, mixed, ¼ oz. 30 cts. 1 oz. \$1.00.  
Truffaut's peony-flowered Perfection, mixed, in separate colors, pure white, light blue, rose and white, and bright red, ¼ oz. 50 cts., 1 oz. \$1.50, or 1 oz. of each of the 4 colors for \$5.00.

Princess or Snowball (Aster), pure white, ¼ oz. 75 cts. 1 oz. \$2.50.

Mammoth Verbena, 100 colors mixed, ¼ oz. 30 cts. 1 oz. \$1.00.

Mittine's Pansy, large flowering, choice, ¼ oz. \$1.00. 1 oz. \$4.00.

**PLANTS.**

Athernanthera aurea nana and P. major, 2¼ in., strong \$2.00 per 100 \$15.00 per \$100.  
800 Robin Hood Carnation Cuttings to spare, strong and healthy, large scarlet, \$3.00 per 100.  
500 Mrs. Chas. Duhme @ \$4.00 per 100.  
500 C. A. Dana @ \$1.00 per 100.  
2,000 Wm. Scott @ \$1.00 per 100, 2¼ in., \$1.50 per 100.  
5,000 Colons, 20 choice bedders, 2¼ in., \$1.50 per 100.  
Lycopodium Denticulatum, 2¼ in., \$2.00 per 100.

Our Crowers' Trade List now ready.

**THE MORRIS FLORAL CO.**  
Morris, Ill.



**Gladiolus Bulbs FOR FLORISTS.**

**WE HAVE THEM! WE HAVE THEM!**

Columbian Medal. S. A. F. Certificate of Merit. First prizes wherever shown. Cushman's Celebrated Seedlings. A light mixture. No. 1, \$1.25 per 100, \$10.00 per 1000. No. 2, \$1.00 per 100, \$8.00 per 1000. Our No. 2 are fine bulbs, 1½-in. and over.

**CUSHMAN GLADIOLUS CO., - Euclid, O.**

**FLOWER SEEDS FOR... FLORISTS**

Special Florists' Price List  
.....Ready

**LATANIA BORBONICA**

FRESH SEED ¼ Lb., 50c; 25 lbs. and up, 40c.

**COCOS WEDDELIANA**

\$7.00 per 1000 Seeds.

Tuberosa Bulbs Dwarf Pearl.

LILIUM AURATUM.

SWEET PEAS for Florists.

**J. M. THORBURN & CO. 15 John St. NEW YORK.**

**FLOWER SEEDS FOR PRESENT SOWING**

See our "BOOK FOR FLORISTS."

Write for copy if not received.

**VAUGHAN'S SEED STORE**

14 Barclay St., NEW YORK.

84-86 Randolph St., CHICAGO.

**PALM** Seed. FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA.	\$1.00	\$7.50	\$20.00
LATANIA BORBONICA.	.50	3.00	7.50
KENTIA BELMOREANA.	1.00	7.00	20.00
FORSTERIANA.	1.00	7.00	20.00
PLUMOSUS NANUS.	1.50	12.50	35.00
CANARIENSIS.	1.50	12.50	35.00
SPRENGERII.	1.50	12.50	35.00

**J. L. SCHILLER,**  
404 E. 34th St., NEW YORK CITY.

WRITE  
**R. & J. FARQUHAR & CO.**  
SEEDSMEN  
16 and 19 South Market Street,  
**BOSTON**

FOR THE CHOICEST AND BEST NEW CROP

**FLOWER SEEDS**

Neponset Paper Flower Pots, Pure Sheep Manure, and All Florists' Supplies.

Catalogues mailed free.

Newport, R. I.

The ball given by the Newport Horticultural Society at Masonic Hall on February 17 proved to be a social as well as a financial success. The gardeners and their friends turned out in goodly numbers and there were also present members of the city government. The entertainment was in the hands of a committee consisting of Arthur Griffin, Robert Laurie, John T. Allan, John Butler and Joseph Gibson, who left nothing undone to make the affair a complete success. The grand march was led by Prof. Alexander Grey, from New York, who is a bagpipe player of merit, and his rendition of the "Cock of the North" for the march was everything to be desired; he also played during the intermission and for some of the dances. At midnight a collation was served, after which the dancing was resumed until "wee" hours in the morning. This affair was the most successful of its kind ever conducted by the society, and it has resulted in reimbursing the treasury of the society to no little extent.

Since the society adopted its exhibition schedule, chrysanthemum cuttings and plants have been much in demand by the members, for the reason that the schedule is so made up that it makes it an easy matter for small, as well as large growers, to compete in almost every class.

At the next meeting of the society Prof. L. F. Kinney, of the agricultural station of Kingston, R. I., will deliver a lecture, the subject being the "Influence of Horticultural Societies."

Mr. Carl Jurgens is cutting extra fine lily of the valley and of which he is shipping large quantities; his Roman hyacinths and narcissus are also extra fine. His experience with rose houses built short span to the south has not been as satisfactory as the older system. Beauty roses on this place planted last spring

**NEW FORCING ROSE**  
**MRS. ROBT. GARRETT**

Hybrid tea, rich soft pink, buds very long, flower extra large delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000, \$225.00 per 1000. Orders booked now, delivery March 15 1904. Correspondence solicited. Address

H. WEBER & SONS, Oakland, Md.

have made a wonderful growth, and have in every respect discounted those of this variety that were planted on benches.

John R. Johnson, gardener on the estate of the late Ogden Golet, will sever his connection with that place on the 1st of next month. J. J. BUTLER.

**Florists' Hail Association of America.**

An occasional florist reminds me that old line companies are offering him a low rate. The good book says: "What profiteth a man if he gain the whole world

**Rooted Cuttings...**

Am. Beauties, Brides, Maids, V. Kaiserin, Perles, Belle Siebrecht, Meteors. Same in 2-in. pots ready Feb. 15th to 20th. Send 50c for samples and get prices.

**GEO. A. KUHLE, Pekin, Ill.**  
Carnation Cuttings ready Feb. 1st.

**ROSES...**

PERLES	} Pots 100	Pots 100				
METEORS.			2 1/2	\$2 50	3	\$3 50
BRIDESMAID						
BRIDE						

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

**New American Rose**

**MRS. ROBERT GARRETT**

As one of the syndicate holding stock in this rose we offer first class plants, from 2 1/2-inch pots, to be delivered on and after March 15, 1904, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

**AMERICAN ROSE CO.**  
WASHINGTON, D. C.

**300,000 YOUNG ROSES 300,000**

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers.

Send for prices.

**The National Plant Company, Dayton, Ohio.**

**...ROOTED ROSES CUTTINGS**

	No scrub wood used. All stock thoroughly rooted and carefully packed when sent out. Send for samples...		From 2 1/2-inch Pots	
	Per 100	Per 1000	Per 100	Per 1000
AMERICAN BEAUTIES, Rooted Cuttings	\$2.50	\$22.00	\$4.00	\$35.00
BRIDES.....	1.50	12.50	2.25	20.00
BRIDESMAID.....	1.50	12.50	2.25	20.00
METEOR.....	1.50	12.50	2.25	20.00
KAISERIN.....	1.50	12.50	2.25	20.00
PERLE.....	1.50	12.50	2.25	20.00

Terms cash with order or goods sent C. O. D. Plants from 2 1/2-inch pots ready March 1.

**J. A. BUDLONG, - STATION X. CHICAGO, ILL.**

**New Plants OF SPECIAL MERIT FOR THE LIVE FLORIST**

**Carnations**

Lily Dean, Flora Hill, Mayor Pingree and Victor at \$5.00 per 100; \$40.00 per 1000; extra selected well-rooted cuttings. These are all A1 varieties and money makers.

**Roses . . . .**

CLARA WATSON, one of the best varieties for general florists' use. \$8.00 per 100, strong plants, and President Carnot, \$6 00 per 100.....

All the new and best Chrysanthemums at advertised rates. . . .

**JOHN N. MAY, Summit, New Jersey.**

**REINBERG BROS.**

WHOLESALE

Growers of **Cut Flowers.**

500,000 FEET OF GLASS. We can fill all orders on short notice with all leading varieties of Roses and Carnations. We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

**Fine Rose Plants**

1 1/2 to 2 1/2 in. Pots  
Ready to Ship March 1st

	Per 100	Per 1000
METEOR	\$2.00	\$25.00
PERLE	3.00	25.00
BRIDE	1.50	22.50
BRIDESMAID	1.50	22.50
LA FRANCE	1.50	22.50
KAISERIN	1.50	22.50

REINBERG BROS., 51 Wabash Ave., CHICAGO.

**ROOTED CUTTINGS.**

**ROSES.**

Bridemaid.....	
Brides.....	\$1.50 per 100.
Perles.....	\$12.50 per 1000
La France.....	Cutting.
Meteor.....	
Kaiserin.....	

**CARNATIONS.**

William Scott.....	
Nancy Honke.....	
Tidal Wave.....	\$1.00 per 100.
Portia.....	\$7.50 per 1000
Lizzie McCowan.....	
Kehinner.....	
Mrs. Thompson.....	
Daybreak.....	
Emma Woche.....	
Meteor.....	\$1.50 per 100.
Coldfinch.....	\$12.50 per 1000
Lizzie Gilbert.....	
Harrison's White.....	
Bridemaid.....	
Nivea.....	\$3.00 per 100; \$25.00 per 1000.
Jubilee.....	\$2.00 per 100; \$15.00 per 1000.
Flora Hill.....	\$4.00 per 100; \$35.00 per 1000.

No order for less than 100 of one variety accepted.

**Pittsburg.**

With the approach of the Lenten period trade improved enough so that it could really be called good. The stock of flowers has only been fair, roses and carnations, particularly in this section, have been none to plenty, the long-continued dark weather having had its usual baneful effect. Prices with the wholesalers have been up to holiday figures, they reaping the benefit of a short crop, as the retailer's prices were not advanced in any marked degree. The demand for funeral work still keeps up with but little variation in either designs or quantity.

Mr. Wm. Flemm who was the late Mr. N. Patterson's right-hand man, and who has been the manager for the estate in the florist's business, has, in connection with Mr. Walter Breitenstein, purchased the business from the estate, and will continue it under the firm name of Breitenstein & Flemm at the old stand, corner Market street and Liberty avenue. Mr. Breitenstein will remain at his place on Smithfield street until April 1 (our general moving day); after that date will be at the firm's store. The new firm will undoubtedly be successful as they both are artistically capable of furnishing up-to-date floral work in any line, and will have the advantage also of an established business to start with and have the good wishes of many friends and the trade for their success.

Mr. Gus Ludwig reports trade good with him in all branches, and among his late orders for funeral work was one that is new here. The walls of the room were covered with muslin, covering entirely all pictures etc., and this foundation was covered with smilax and asparagus; the body of the child lay in a floral cradle, with palms and decorative plants arranged in profusion around it, all having the effect of a garden. This is the custom in the part of Europe where the parents of the child came from.

Mr. L. I. Neff, of Sixth street, says trade has been better for the last week than for a month before, also that the trade at his old stand on Butler street, now managed by Mrs. Neff, is also good. Mr. H. Streif, formerly with Mr. Dell, is now engaged by Mr. Neff at the Sixth street store.

Superintendent Falconer, of Schenley Park, has gone on a trip to Florida.

REGIA.

**Rochester, N. Y.**

It is likely that prices, which have kept up so steadily in this market, will decline now to some extent, especially if the supply should keep on increasing as it has done lately.

In the past week every day was a busy one. February 22 called for a number of table decorations in various quarters, there was also a lively demand for flowers of every description to be used on the tables at smaller gatherings. An ample supply was on hand this time, with the exception of good roses, which all through this winter have been very scarce in this market, only a limited quantity of first class stock came in from local growers; the supply had to come from distant points, and was not always as good in quality as expected. Some of our growers are inclined to blame the sunless winter months for their failure to produce good flowers, and it may be true that we had a few more cloudy days than in other years, but then if the dark weather had anything to do with this, all growers in the neighborhood would have been

affected alike, which is not the case, for Salmon's roses, for instance, are as fine as ever, and in a few other places they are cutting some excellent blooms while their near neighbors have not been able to coax their plants into vigorous growth; the want of success must be looked for somewhere else, in my opinion.


I do not know that any of our retailers have seriously suffered by this insufficient supply; instead of recommending the lavish display of roses in a table decoration; they usually suggested something different, for a change, and the innovation was favorably received by a majority, so that now, instead of merely ordering a bunch of roses for their tables, people will ask for suggestions in some other line. However, roses will always be in demand, and those on hand are readily disposed of every day; it is only a clever trick of our florists to suggest fancy carnations, a special shade of tulips or some other flowers when they are unable to supply

the roses on short notice, but it cannot be denied that the sales in these other flowers have increased considerably over the ordinary, and that there is as much profit in one as in the other. Orchids have never been used extensively here, but had a better run this winter than ever before, just on account of the prevailing scarcity of good roses.

J. B. K.

**Society of American Florists.**

The meeting of the Executive Committee has been called at Washington, D. C., for March 15th. In accordance with the usual custom the meeting should have been held at Omaha but the expense being very great and the Exposition management at Omaha not showing any disposition to assist in the matter of transportation, the change was made in the interests of economy. The president and secretary will probably find it necessary to go to Omaha later.




## IT'S ENGLISH, YOU KNOW!

Drop a postal and get a leaflet "How to Grow Begonia Semperflorens from Seed." Vernon is a shining example of this type. Sutton's, the celebrated English Seed House, offer improved selection of Semperflorens, of which the following are of great merit: **Crimson Gem, Coral Gem and Duchess of Edinburgh**; the colors are red, rose and blush. We offer liberal trade packets of American saved seed at \$1.00 each; one-half packets at 50 cents.

CASH WITH ORDER.

**A. H. LONSDALE CO.,** STATION H, Phila., Pa.



Put a dollar bill in an envelope and get a 1/2 trade packet of each of the above, or if you only want to experiment we will send you a mixed packet for a quarter, silver or one cent stamps. Our tests show the vitality much better than imported seed. These Begonias are great, either for bedding or pots—always in bloom—Semperflorens means everblooming. Seed sown now will make fine plants for Spring sales.

Cash with the Order.  
Money Order P. O.  
Station H.

**A. H. LONSDALE CO.,**  
Specialists, Station H, PHILADELPHIA, PA.

NEW SWEET PEA

# ...The BRIDE

Originated by  
M. Lynch, Menlo Park, Calif.



**THE BRIDE** This beautiful large, white-seeded variety is the best White Sweet Pea to date. It is a pure white selection from Mrs. Eckford and is the strongest germinator among all the white-seeded varieties—so often poor growers. Grown for the cut-flower market of San Francisco in competition with the other high class whites, it has brought the highest figures over them all, taking first rank among all the whites. The flowers are pure white of the substance, large and of true grandiflora type. Beside this every seed will grow. Perfect flowers were cut as early as April 16 last year. Price, per lb., \$2.00; 1-4 lb., 60c; oz., 20c; pkt., 10c.

The Cornell Bulletin in naming the best Sweet Peas of each color, classes The Bride first as a white, with Emily Henderson second and Blanche Burpee third.

Frank Pellegrino, a leading florist of San Francisco, stated: "We can sell more Bride Sweet Pea blooms than those of any other variety which we have ever handled."

Prof. Tracy, in a recent review of some of the newer Sweet Peas says: "The especial merit of this variety (The Bride) is in its length, strength and grace of flower stem, and the disposition of the blooms thereon, being one of our best sorts in these respects, and forming an exceedingly graceful bunch."

Mr. Lynch has sent us his entire stock which we offer to the trade as above.

THE BRIDE

**VAUGHAN'S SEED STORE,**

14 Barclay St., NEW YORK. 84 & 86 Randolph St., CHICAGO.

The Plant Swindler in Tacoma—Same Scheme.

H. Manicke, a florist at Sixth and M streets, was swindled in the same old way recently. The smooth-tongued stranger called and asked to have some plants left at 712 D street for use at a ball. When Mr. Manicke called for the plants, he found they had been sold to residents in the vicinity.

St. Paul.

TRADE GOOD.—PRICES HIGH.—ROSES AND CARNATIONS SHORT.—PERSONAL.

The week ending February 22 was one of the busiest on record. The funeral of a prominent physician called for an immense display at the hands of the florist—one of the largest ever seen here. Numerous social gatherings of more or less note, a few weddings, and a general desire for flowers, assisted in rolling up sales, while shipping trade to country towns made the round-up one of the best recorded.

Retailers, however, complain of high prices, in many cases exorbitant, while the growers are correspondingly happy. In fact, this winter has been exceptionally favorable to the growers in this section. No snow, plenty of sunshine, no severe cold, thereby saving fuel, have all combined to give the grower some old time enthusiasm, and to stimulate trade in general.

Retail prices are well maintained, though not as correspondingly high as the wholesale. Stock has been and is very scarce. The cut here has been wholly inadequate to the demand, and large shipments from Chicago and Milwaukee are arriving daily. The numerous growers there are the brake which keeps prices from soaring skyward here.

The principal shortage has been in roses and carnations. Our home growers supply about all the violets needed—but in other lines the supply is sadly deficient. Bulbous stock, excepting Harrisii, is in fairly good supply. This class of stock is exceptionally fine this year. Better daffodils, Romans, Paper Whites, valleys, tulips and hyacinths were never seen in this market. If this is due to the better class of bulbs shipped in on account of the tariff increase, we say all hail to the Dingley bill. Let the good work continue. Harrisii while not badly affected by disease, are not as good in general as in former years. Longiflorums from Japan, on the contrary, are exceptionally good, clean, healthy stock.

Plants have sold fairly well, though bulbous stock goes slowly.

The demand will be less during Lent, though indications point to a continued good trade.

Our first fall of snow this season came the 19th and is disappearing rapidly under the sun's rays.

NEW & SECOND-HAND MATERIAL,

purchased from Sheriff, Receiver, and Auctioneers, sold at less than one-half price. Pipe and Fittings, Hose, Florida Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe, Glass panes and thousands of other articles, for sale by

CHICAGO HOUSE WRECKING CO.

Largest Mail Order Depot for New and Second-Hand Material in the World

W. 35TH & IRON STS., CHICAGO.

Write for our free illustrated catalogue.

Stock for Easter will be plentiful and good. Harrisii are not as good as in former years, though fully 80% to 90% are all right. It looks as though this grand Easter plant were doomed, as the inroads of the disease are worse each year.

Callers during the past week: Mr. Greenlaw, representing N. F. McCarthy & Co.; Mr. Roberts, of S. A. Weller & Co., Zanesville; the genial representative of J. Krauss, New York, and Mr. Lipman, with T. Ollesheimer. FELIX.

Neponset Flower Pots

Made of Waterproof Cardboard, of nice terra cotta color.

Terms—Net cash with order. If ordered shipped by FREIGHT, ADD 50 CENTS CARTAGE.

Size	Packed in Crates of	Gross Weight per 100 pots	Per 100	Per 1000
2 1/4-in.	1000	about 20 lbs.	\$0.25	\$2.50
2 3/8	1000	" 25 "	.30	3.00
3	1000	" 34 "	.45	4.50
3 1/2	1000	" 45 "	.60	6.00
4	500	" 76 "	.80	8.00
5	500	" 100 "	1.20	12.00
6	500	" 150 "	1.65	16.50

Standard Pot Measure.

Less quantities than full crates at 100 rates. Full sample dozens of a size mailed on receipt of 10c 15c 25c 30c 45c 60c

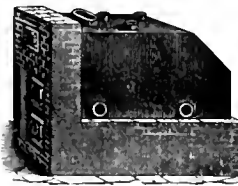
for 2 1/4-in. 2 3/8-in. 3-in. 3 1/2-in. 4-in. 5-in. 6-in. pots. F. W. BIRD & SON, Manufacturers.

August Rölker & Sons

52 DEY STREET, NEW YORK.

Our Eastern Agents are

R. & J. FARQUHAR & CO., Boston, Mass.



GREEN-HOUSE HEATING. MYERS & CO.

1518 & 1520 S. 9th St. PHILADELPHIA. Send for catalogue and price list.

Boilers OF HIGH GRADE.

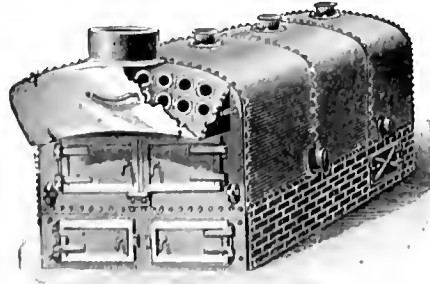
For GREENHOUSES.

See our Catalogue. . . . .

Steam and Hot Water Gibling & Co., Utica, N. Y.

KROESCHELL BROS. CO. IMPROVED

Greenhouse \* Boiler, 29 to 59 Zrie St., CHICAGO.



Boilers made of the best of material, shell, brobox sheets and heads of steel, water space all around (front, sides and back). Write for information.

DON'T SYRINGE WITH COLD WATER.

It lowers the vitality of your stock, but write for particulars of my tempering Apparatus.

HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.

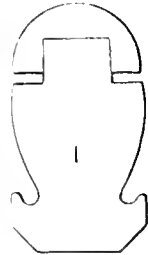
When writing mention American Florist.

Established 1859....

THOS. W. WEATHERED'S SON

Horticultural Architect and Builder.

Greenhouse Wood-work. Greenhouse Iron-work.



Red Gulf Cypress free from Sap.

Get my prices on everything needful for the erection or repairing of Greenhouses.

IT will always give me pleasure in answering correspondence relating to the Heating, Building and Ventilating of Greenhouses, and none of your wants will be too small or too large to receive my immediate and careful attention.

JOINTS in all Ventilating and Hot Bed Sash are made with white lead and iron dowel pins at corners.

KNOTS there are none in my lumber, it being carefully selected.

LUMBER of the best Red Gulf Cypress strictly free from sap. Use no other.

MATERIALS of all and every kind entering into the Heating, Building and Ventilating of Greenhouses.

THOS. W. WEATHERED'S SON

141 CENTER STREET,

NEW YORK.

**Milwaukee.**

The past week has been a busy one among florists here, stock became quite scarce at times; dinners, receptions, etc. have been quite numerous, with a few funerals interspersed. All good flowers sold; when the variety asked for could not be furnished something else was used as substitute. All must have fared well until the 19th, 20th and 21st when the north-east snow storm set in; flowers that were engaged for certain occasions didn't arrive on time; orders were countermanded in some cases, the streets being impassable almost; new business fell off and the wholesale men have received several consignments that were left unused. A revival of activities started in on the 22nd, and bids fair to round up the week in good shape.

One of the largest decorations of the winter was for the Deutscher Club, Monday evening; the florist had use for all his grit in transporting the large palms and other material during the blinding snow storm Sunday and Monday, but he finished on time a job that was much admired. One striking feature was the use of the Alabama smilax, wired to bamboo fish poles; several of these stood up, being wired together at base, they arched over and drooped, being an exact representation of *Bambusa vulgaris*, fifteen to eighteen feet high at one end, around the balcony they extended up to the ceiling and arched over the dancers; the corners of the hall were partitioned off by a low hedge of bamboos and gate-way of two standard laurels in which were spread rugs and a parlor set of furniture. *Latania* palms and kentias twelve feet high were used at intervals, it was like a real palm garden.

One ingenious contrivance noticed at a funeral last week is worth mentioning on account of its simplicity. Two letters had been sent in, E and C, twenty inches long, some very pretty plant work had been arranged. The florist procured two common adjustable music racks, placing the base in between pots and wired a letter on each rack placing one near the head and the other near the foot next to the wall, so the wrong side was not visible; with the thumb-screw the height was easily adjusted, a little smilax trimming and the two letters were suspended over the bed of ferns very daintily and easily. These music racks are very convenient for this kind of work, every florist who makes a business of decorating should keep two or three of these and an easel or two close by.

The only catastrophe reported occurred Saturday night at Whitnall Floral Co.'s greenhouses; thirty feet of the north end of a palm and fern house collapsed. There was not a plant or roof to be seen. It caused no interruption to business.

C. B. W.

**Indianapolis.**

Business in this city continues to be very satisfactory in stores as well as on market. St. Valentine's day was a good day for everybody. Cut flowers sold best, although there was a good demand for blooming pot plants, and pans filled with bulbous stuff and ferns.

On the 10th inst. a committee of the State Florists' Association met with a committee of the Commercial Club regarding the chrysanthemum show. Although a good deal was said on both sides, nothing definite was accomplished, excepting that the committees arranged to meet again in the near future.

Very few of the Indianapolis men found

time to attend the carnation meeting at Chicago. Wm. Bertermann, Wm Ashlach, and Wm. Langstaff were the only ones who managed to get away. They report having had a good time, and speak enthusiastically of the meeting and exhibition.

H. Junge, who has been confined to his bed with scarlet fever, is recovering.

Mr. and Mrs. Ed. J. Brown, florists, of Shelbyville, were in the city this week. J.

SPORT FROM ALBERTINI.—The South Park Floral Co., Newcastle, Ind., reports a fine red sport from carnation Mme. Diaz Albertini.

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# Kraft's Plant Tonic

For PLANTS, PALMS and FLOWERS

...A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale..

This is one of the greatest preparations for the use of Florists and Plant Growers ever compounded. It gives to the foliage of plants treated the bright, fresh color of healthy, growing vegetation. It destroys all insect life infecting the plant and eradicates scale.

Besides improving the color of the plant, it effects a general betterment of its condition, aiding nature in disseminating and retaining the sap and life of the plant. The Tonic makes the foliage of the plant soft and pliable, and a beautiful bright green.

For sale at

Price per bottle, 25 cents.

84 & 86 RANDOLPH STREET, CHICAGO.

**VAUGHAN'S SEED STORE,**

14 BARCLAY STREET, NEW YORK.

# HAMMOND'S TOBACCO EXTRACT.

THE OLD ORIGINAL.

GEO. S. OSBORN, OLD TOWN FARM GREENHOUSES, COR. SARGEANT & ATWOOD STS.

HARTFORD, CONN., Jan. 25, 1898.

Hammond's Paint & Slug Shot Works, Fishkill-on-Hudson, N. Y.

Gents—I send check for amount of enclosed bill, and think I shall need more of the Tobacco Extract for further trial. SO FAR AS CAN BE JUDGED IT IS THE BEST EXTRACT I EVER HAD. Let it come by freight at once, as we have two houses longing for a dose. Yours truly, GEO. S. OSBORN.

SOLD BY WHOLESALE SEEDSMEN.

**Tobacco** STEMS DUST EXTRACT  
BOTTOM PRICES.  
**VAUGHAN'S SEED STORE,**  
Chicago. New York.

**Scollay** Sprinkler...  
INDISPENSABLE  
J. A. Scollay, Maker,  
74 Myrtle Ave.  
Brooklyn, N. Y.  
VAUGHAN'S SEED STORE, Gen'l Western Agents,  
84 Randolph St., CHICAGO.

**NATIVE GUANO** A COMPLETE AND NATURAL FERTILIZER FOR...  
(Desiccated Night Soil)  
Gardeners and Florists.  
SOLUBLE, QUICK TO ACT, PLEASANT TO HANDLE.  
**STANDARD FERTILIZER CO. Inc.**  
1822 Filbert Street, Philadelphia.

THE BEST FOR ALL Florists' **ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE** FOR SALE BY SEED STORES FOR FREE PAMPHLET WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO LOUISVILLE KY

Grand Rapids, Mich.

The Grand Rapids Florists' Club held a meeting at Alfred Hannah's on East street near Burton avenue, Tuesday afternoon, February 15. The meeting was called to order by Henry Smith, in the absence of N. B. Stover, the president. Chas. Chadwick was admitted to membership. Henry Smith read an able paper on "Roses." A great diversity of opinion was expressed about the advantages and disadvantages of growing on solid beds versus benches. Mr. Grey once remarked to the writer that he had wasted \$2000 per year in unnecessary expenses of labor and new stock by adhering to the old method. Some considered it advisable to keep part of the plants in two years; similar to the method pursued by some Detroit florists, thus having one-half the stock one year old, the other two years old. The majority, however, were in favor of the present bench systems.

The cause of black spot was assigned to several conditions, over-watering, sudden changes of temperature, drafts, mulching too early, while the wood was in a soft, sappy condition and in such rapid growth that the plants could not assimilate it when the cold nights arrived. While all florists must grow some American Beauty roses it is not a profitable variety in this vicinity.

Henry Smith and Geo. F. Crabb were appointed a committee to secure as many contributions of new carnations from the originators as possible, for the carnation meeting, to be held Tuesday afternoon, March 1, at Crabb & Hunter's, 509 Madison avenue, all flowers sent to be consigned to Crabb & Hunter. The meeting closed with a banquet. After passing Mr. and Mrs. Hannah a vote of thanks, an hour was spent in getting better acquainted with each other.

GEO. F. CRABB.

Los Angeles, Cal.

The decoration arranged by the Redondo Floral Co. for the wedding of the Queen of the Fiesta of 1897 was most notable. At the end of the double drawing room where the bridal party gathered was represented a portion of the bell tower of the old San Gabriel Mission, the frame work being made of smilax, ivy and ferns, starred with numerous carnations, and the three bells were decorated with Roman hyacinths and dianthus. Above were poised four white doves. The elaborate arrangements in other parts of the house were exceptionally beautiful.

The funeral of Father A. Meyer, president of St. Vincent's College, gave all the florists a number of designs and church decorations.

A few weeks ago it looked as though Los Angeles would not indulge in a Floral Fiesta and week of gaiety this year, owing to the difficulty in securing money. Now, however, the money is assured, and the city will try to excel all past successes.

The South California Floral Co. is to remove from 275 South Spring street to the corner of Fourth and Spring streets.

The Central Park Floral Co. have done an unusually large business in shipping cut flowers eastward. D. R. W.

**HOT BED SASH**  
of Red Cedar, Cypress and Pine.  
**A. DIETSCH & CO.**  
Manufacturers of Greenhouse Material.  
615-621 SHEFFIELD AVE. CHICAGO, ILL

SEND FOR FLORISTS  
PRICE LIST AND  
CATALOGUE

FREE UPON  
APPLICATION

TRADE MARK

**HOT WATER HEATERS  
AND STEAM BOILERS**

THE STANDARD OF EXCELLENCE  
FOR THEIR RESPECTIVE REQUIREMENTS.

**GURNEY HEATER MFG. CO.**  
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COR. CONGRESS, 48 CENTRE STREET.

**SYRACUSE POTTERY CO. Flower Pots,**  
MANUFACTURERS OF

**Bulb Pans, Hanging Baskets and Saucers**

OUR FLOWER POTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Poro Pot." They are more Porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

SYRACUSE POTTERY CO.

SYRACUSE, N. Y.

**Flower  
Pots**

We are general agents for all varieties of flower pots and make a specialty of **FLORISTS STANDARD POTS**

Manufactured by  
BRAZIL POTTERY & CLAY MFG. CO., Brazil, Ind.

Being centrally located we can save you freight. Also headquarters for FLORISTS SUPPLIES. Write us for price lists and we know we will get your order.

MAIL SEED CO., 150 No. Delaware St., INDIANAPOLIS, IND.

**STANDARD FLOWER POTS.**

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY COMPANY, 713 to 719 Wharton Street, Philadelphia, Pa.

BRANCH WAREHOUSES: { Kearney and Westside Ave., Jersey City, N. J.  
Jackson Ave. and Pearson St., Long Island City, N. Y.

**Standard Flower Pots...**

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere. ....

CAMBRIDGE TILE MFG. CO., Covington, Ky.



**STANDARD FLOWER... POTS.**

We Manufacture a full line of Standard Flower Pots, Hanging Vases, Lawn Vases, Seed Pans and Cylinders, glazed and with handles.

SEND for our price list before ordering elsewhere and save 25 per cent. ADDRESS

Hilfinger Bros. Pottery, Ft. Edward, N. Y.

**FLOWER POTS**

ALL KINDS.

**STANDARD POTS** A SPECIALTY

List and SAMPLES FREE.

J. G. SWANN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.

**THOSE RED POTS**

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS  
BULB PANS AND AZALEA POTS

DETROIT FLOWER POT M'FY,  
HARRY BALSLEY, DETROIT, MICH.,  
Rep. 400 HOWARD ST.

**Standard Pots** Made by

Good Railroad Facilities For shipping. **KELLER BROS.**

Special Attention Given to Mail Orders, and Special Sizes Made to Order. NORRISTOWN, PA.

Price Lists Furnished on Application.

**GEO. KELLER & SON,**  
MANUFACTURERS OF  
**Flower Pots.**

Before buying write for prices.  
361-363 Herndon Street,  
near Wrightwood Ave.,  
CHICAGO, ILL.

Mention American Florist.

**Standard FLOWER POTS**

If your greenhouses are within 500 miles of the Capital, write us we can save you money.

**W. H. ERNEST,**  
Station M, N. E. WASHINGTON, D. C.



Alarm Invention.

There has been invented an alarm which can be attached to any kind of heating apparatus, and as soon as steam or heat begins to leave the pipes it will ring until it is cut out of circuit by some person. It is a neat contrivance, bell, battery and switch being arranged on a board similar to a telephone. It can be placed in any room of the house and be an ornament as well as a true watchman, which never fails. Mr. Yeats will be at the S. A. F. convention to exhibit his invention and show all its merits.



**CYPRESS GREENHOUSE MATERIAL**

OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

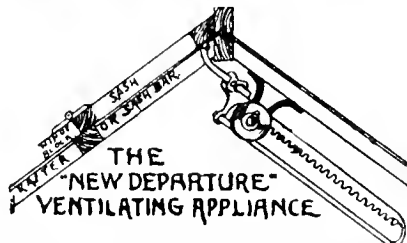
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IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.

**THE A. T. STEARNS LUMBER CO.,**  
Newport, Boston, Mass.



You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to

**J. D. CARMODY, Evansville, Ind.**



**LOUISIANA Cypress Green House Material.**

**RED CEDAR**

Write for Estimates.

**The Right Cypress for Greenhouse Material.**

Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is White Cypress, Yellow Cypress and Red Cypress; there is Cypress that grows on the high lands and Cypress that grows in the swamps.

All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we can not afford to jeopardize. We send out the best only.

Write for Circulars or Estimates.

**Lockland Lumber Co.**

LOCKLAND, OHIO.

**H.M. HOOKER COMPANY.**  
COR. CLINTON and RANDOLPH STS. CHICAGO.

**GREENHOUSE GLASS**

**OUR SPECIALTY.**

**LARGE STOCK PROMPT SHIPMENT.**

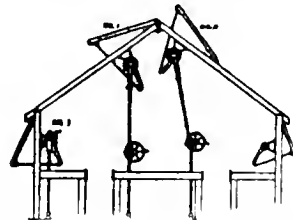
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WRITE FOR LATEST PRICES

**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability

Send for Catalogue.



**E. HIPPARD, YOUNGSTOWN, OHIO.**

NOTHING Flimsy OR Complicated about it.

**CALIFORNIA RED CEDAR**

NEVER DECAYS.

**A. DIETSCH & CO.,** 619 Sheffield Ave., CHICAGO.

MFR'S OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

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IMPORTERS AND JOBBERS OF

**Greenhouse Glass**

Make your contracts for next season now. We can deliver to any part of the country and Save You Money .....

72 Sudbury St., BOSTON, MASS.

**FOR SALE CHEAP. GLASS** for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. **THE REED GLASS & PAINT CO.,** 456 W. Broadway, NEW YORK.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

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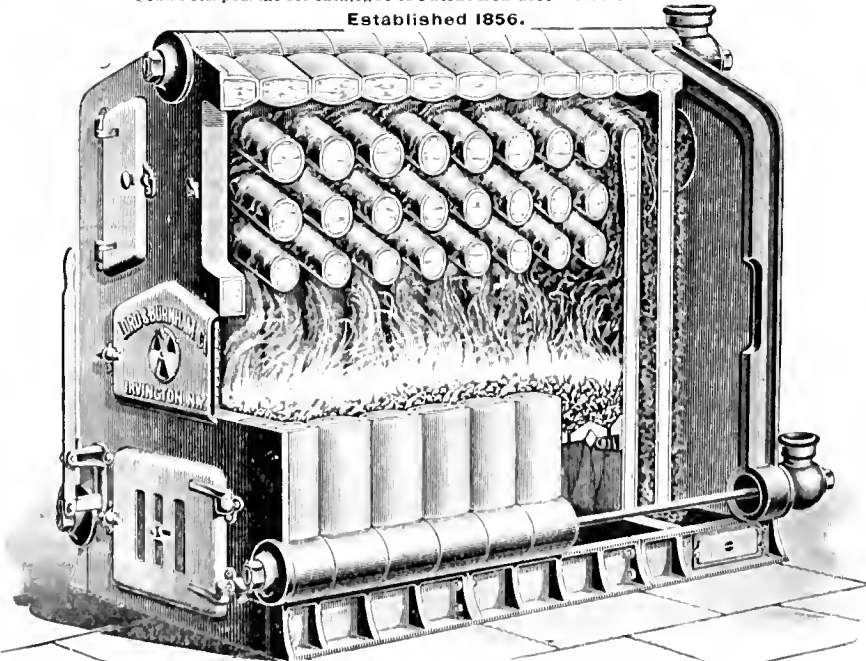
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## THE AMERICAN FLORIST

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OFFICERS—Wm. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August, 1898.

THE AMERICAN CARNATION SOCIETY.  
Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

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THE gardeners of the New York parks have formed a union under the title of the Catalpa Labor Club, which will be subject to the Knights of Labor organization.

### Trees to Adorn Streets.

[Address delivered by Wm. R. Smith, Botanic Garden, Washington, D. C., before the Massachusetts Horticultural Society.]

In Washington, where the soil is generally poor, we usually remove two or three good-sized cartloads from a hole and replace with the best top soil to be had. We do this in dry weather for obvious reasons; we stir up the bottom and avoid compacting the sides of the same. Do not plant too closely. The character of the trees selected must determine the distance apart. One important aid to success is the tree box. It is doubtful whether by shading the stem of the tree from the sun to prevent scalding, or holding the newly planted tree steady, is its most valuable service. Do not attempt to go into the woods or uncultivated ground for trees, except as a dire necessity. We were compelled to do this at first, for some things, and were moderately successful with American sycamores, elms, scarlet maples and tulip trees. It is my deliberate opinion that in the interest of economy it is better to get nursery-grown trees. Every city, village or suburban town ambitious for distinction for being well planted with trees, should have a nursery of its own, where healthy trees can be reared. Get clean seedlings from some reliable source, cultivate, prune and train them in the way they should grow, in the best ground obtainable. This last suggestion is of great importance. Trees from a poor, thin, gravelly soil, or from a wet, sour, undrained one, are worthless.

That queen of American trees, the sugar maple, when bark-bound from any cause, should be dispensed with and a young healthy one substituted. It refuses to do duty as a curbstone tree. The Norway maple is one of the best curbstone trees, less self-assertive than some others. From a rare volume styled "Hand-book of Ornamental Trees," by Thomas Meehan, I find the following under *Acer dasycarpum* (white maple): "One of the finest of our native trees. It is so often seen in a half-starved, stunted state, as a street tree, that one might be incredulous of its beauty, when under proper circumstances, from a mere description." One would think the editor had recently visited Washington. His description suits the actuality at the present time. The limited supply of moisture and food obtainable makes it necessary that this large growing tree should be judiciously pruned. With roots caged and confined, it is not possible for it to sustain a large top. Intelligence should take this whole situation into consideration and act accordingly. The gorgeous autumnal tints of the swamp maple make it an object of interest to every lover of trees. Not

being able to obtain this tree in the nurseries, we went to the woods, with only moderate success. Had we cut the small trees to the ground when planted in the nursery, I think the result would have been better.

The ash-leaved maple (*Acer Negundo*), a herald of spring, with its beautiful green foliage, and its rapid growth, would be an excellent street tree, were it not for the bag-worm and web-caterpillar being so fond of it. It should be skillfully pruned to keep it in good health. With the sycamore maple, we have had only moderate success. It soon gets covered with seeds, indicating its arrival at maturity, a desirable condition in a fruit, but not in a street tree. Some fine specimens of *Acer campestre* planted on the Capitol grounds have been tomahawked lately, agreeable to an uninstructed, semi-popular request. A variety of this English maple grows more freely and is altogether a larger, different appearing tree, and may, when more abundant, make a street tree.

The tulip tree is not, in my opinion, a good curb tree, although the parkway is planted with it. If the trees are well cared for it will make the handsomest avenue in Washington. Permit me to introduce one which I think is among the best as a curb tree, the Ginkgo or maidenhair tree. Two of these interesting trees have flourished in Washington for sixty years or more. Several streets are now planted with them, where they are very fine, and fruit freely. I have never seen an insect near them.

The western rock elm (*Ulmus racemosa*), is a tree worthy of more attention. A dozen or more as curb trees mixed with other elms are not attacked by an insect as far as my observation goes. It is a good street tree. The "wahoo" (*Ulmus alata*) is another not attacked by insects. It is worthy of trial in the North. I have only to mention the majestic American elm and say, give it room; it must have room. To say more in New England would be supererogation. Another remark we might make—it bears the knife when young, but not the saw. In after-time, only dire necessity should be the excuse.

The plane tree (*Platanus orientalis*) in Washington is one of the best all-around street trees. They are greatly improved when severely trimmed; even the hollow-stemmed old specimens on Pennsylvania avenue, when so treated, were greatly renovated in appearance. Another tree not troubled with insects is *Gleditsia triacanthos* (three-thorned acacia). It bears pruning and is improved by it. The sweet gum or liquidamber is only a moderate success as a curb tree. It is attacked

by insects. Of the genus *quercus* (oak) I have my doubts as a curb tree. As lawn trees, or in lines in the park they are grand. The American linden has been planted and is doing well, although not a perfect tree; it is much better than the European, which is apt to be destroyed by the borer. The same may be said of the ash, especially the European, which is a very variable species; none of its forms escape this terrible enemy. With the American species the borer is not quite so successful in disfiguring and destroying the trees. *Fraxinus pubescens* and *F. quadrangularis*, where there is good soil, are worthy of trial. With the horse-chestnut we achieve satis-

or three years. The members of the willow family affect damp, swampy, ague-breeding places, and in various ways are candidates for the high honors of quinine, as a cure for intermittent fever.

I have never been in favor of spending large sums of money for moving trees; even to satisfy public demand. I have looked in vain for permanent success in this matter. It usually takes a young, healthy tree about the same time to grow up as it does a large one to die, after being removed. Much more might be said on this subject, but it is enough if I show you that it is better to observe and think before spending money on transplanting large trees.



DECORATIVE CACTUS DAHLIA CLIFFORD W. BRUTON.

factory results owing to the opportunity afforded by heavy filling where the trees were used. In poor soil, with no chance to root deep, by the last of the summer it is not beautiful to look upon.

Permit me here to name a few proboscis for the office of street decoration, and as sanitary cooling agents. *Phello dendron Amurensis*, I think would fill both offices. *Zelkova matata*, and *Z. acuminata*, *Celtis occidentalis* (American nettle tree) and *Cornus sibirica* (hackberry) we would all necessary trees. Birds get the fruit in hard weather, and for this reason we recommend the cactus to be planted in parks and other places. The Japanese catalpa is more sought for than the American species, and I think a probable street tree in our section. *Ostrya Virginica* (hophornbeam) would be a nice small tree for a rather unimposing street tree. *Fraxinus pubescens* and *F. quadrangularis* could be a doubtful candidate for street decoration. I would avoid the rose and that much abused tree, *Abutilon glandulosum*, for a curb tree. The objection to this tree is that it is a tree which can be cut down in winter and which can be replaced in spring and which can be

By cutting back severely, careful watering when necessary, and cultivating with the assiduity of a good farmer towards his corn crop, we reached a phenomenal success in the early days of tree planting in Washington. Another suggestion; do not let dudeism drive from your street trees the white-washer. If he uses lime, blue or other colored clay, sulphur, lamp black, salt or other material, he will greatly improve your trees, and add to the health of the neighborhood, perhaps killing the much dreaded microbes of diseases as well as scale insects and fungoids. It will not stop horses' nibbling at the bark, woven wire must be used for that. For bad boys who injure trees, and for gas leaks it is difficult to suggest remedies. I can only say, mend the latter and try to improve the former. Arbor Day and memorial tree planting should go hand in hand, creating a sentiment of love and veneration for trees.

These sows pansies give promise of being the pansies of the future. It is easier to raise them in this way

**Dahlias.**

**COLORADO METHODS.**

At the solicitation of numerous friends I will here state my methods of dahlia culture. And while my methods are not claimed to be perfect, yet they represent twelve years of practical experience among the plants and tubers.

In the FLORIST of January 8 I was much interested in an article on dahlias by Mr. Miller; especially interesting was that portion giving the culture as practiced by Mr. Peacock. But before going further let me say that my surroundings and conditions are probably different from those of any other dahlia grower (commercially speaking) in the country, and certainly very much different from those of Atco, N. J. Yet I believe that the dahlia, when given a reasonable chance, will adapt itself to its surroundings. My altitude is about 5300 feet and I know nothing about "dry spells" that often give trouble elsewhere. With a perfect system of irrigation drouths are robbed of their terrors, but notwithstanding this, rain is very acceptable; it washes the leaves and helps to hold the red spider in check. Our days are dry and hot and our nights are quite chilly, on account of the nearness of the mountains and snow. These latter circumstances, however, seem to be very satisfactory to dahlias. They thrive and produce flowers of wondrous size, frequently six inches in diameter, and plants sometimes reach a height of nine feet. Just at how high an altitude the dahlia will grow, I have not yet discovered in this latitude, but I have customers in Georgetown, Colo., at an altitude of 8500 feet, who grow them nicely.

For my own planting I use small roots; as large as a man's finger is preferable. The size, however, varies considerably in different varieties. In planting I lay the tuber on its side covering it five inches deep. This is very important and should not be overlooked. Planted on the end, as is so generally practiced, or where the germ end is near the surface, is ruinous. When so planted the roots start from the other end, and the germ end being so near the dry surface will not start roots readily, if at all. The evil is not at once noticeable, but as fall comes on, and the old tuber becomes hard and woody, the plant will lose its thrift, and the flowers will be small and inclined to be open-centered. But if planted as suggested above—on the side—new roots will be thrown out from the new stalk before it is fairly out of the ground, and then the plant will have but little use for the old tuber; it will also hold its position much better. I plant in rows 2 1/2 x 3 feet, with a five foot space every fifth row for convenience in walking through. Where dahlias are grown for the tubers only, they may be planted 1 1/2 x 3 feet apart.

In cultivating I use a cultivator so adjusted as to throw the soil well up to the plants; this leaves a depression in the center for a small stream of irrigation water, which in dry weather I turn through about twice a week. Several advantages are thus gained; the ridges help to support the plants, and the loose dry surface prevents evaporation and fewer weeds start. I stop the cultivator as soon as the blossom buds appear. Planting the tuber direct to the open ground is preferable to starting in pots for the reason that where pots are used the tubers are so often in a vertical position. This does not apply to plants raised from cuttings and potted, as their roots are in proper shape. Cutting plants will bloom just as early and freely as

those grown from tubers only they will not produce as many roots.

My time for planting tubers is the first week in May. These begin to bloom about July 10 to 15, and by August 20, are in full bloom. I noticed with surprise, while reading a recent bulletin on dahlias from Cornell University, that some of the varieties were reported as not blooming until along in October. Why this delay I fail to see. I generally have my stock all dug and put away by October 20, and yet I count on a good three months of bloom. Contrary to the general practice I do not advocate heavy manuring. I have seen many plants and beds ruined by too much manure. Where this is the case, it is shown by a too rank growth, the flowers are under-sized, the stems weak and lacking the woody fiber; in fact a dahlia, like the sweet pea, can be grown all to top. Just how much manure to use practice alone will tell, as the soil varies so in strength, drainage, etc. My soil is a medium loam, with some clay in the subsoil, and I consider a plat well adapted to dahlia growing if it has been well manured the previous year, except that I always give a light dusting of pure bone in the furrow when planting. In connection with heavy manuring I should also have said that where there is a rampant growth the tubers seldom mature well. They have too much sap and will often rot during the winter.

Dahlia growers should keep a sharp lookout for red spider—the worst enemy of the dahlia. All dead flowers should be kept off the plants that are intended for late blooming.

In closing this article let me say that I have but little sympathy with the popular cry for dwarfs, and at the same time the cry is for long stems. Short men don't as a rule have long arms, neither do short dahlias have long stems as a rule. A dwarf compact dahlia plant is like the old-fashioned bouquet aster, pretty but not graceful.

W. W. WILMORE.

Denver.

#### Coles' Kaiserins.

The accompanying illustration shows some Kaiserins as W. W. Coles, Kokomo, Ind., grows them. This vase was exhibited at the recent convention of the American Carnation Society in Chicago, and attracted much favorable comment. Mr. Coles has been unusually successful with the Kaiserin since its introduction five years ago, and has won so many premiums with it in various sections as to become familiar under the name of the Kaiserin King to many in the trade.

#### Profitable Mushroom Growing.

Mushroom growing has got to be a fad in this section. Many of the merchants and business men are attempting to grow them in their cellars during the spring and summer months, with some successes and many failures, and I am sure the growing of mushrooms would be profitable to the florist or market gardener in any city with 25,000 inhabitants, as every year they are more in demand; and in the months of August and September the small boy makes quite a stake gathering and peddling them from door to door.

This is the best time of year for beginners to try mushrooms, and an ideal place would be a shed built on the north or back wall of a three-fourth span rose-house, which is usually about seven feet high, the front wall of the shed being four feet, the roof double boarded, the ends

glass, this would give enough light to work by; seven feet is wide enough; and the bed formed by setting two nine-inch boards on edge, the back one six inches from the front wall, and the front one two feet six inches from the wall of rose-house, making a four foot bed, and gives plenty of room for a wheelbarrow.

Success depends on the preparation of the manure and the spawning of the bed. For manure, get fresh horse droppings; this is easy to obtain by making arrangements with the stableman at the livery stables, have them save it in barrels, so that if put outside it can be covered. This should be gathered every second day, and kept turned over to prevent violent heating. When enough manure has been collected to make the size of bed required, mix with about one-fourth its bulk of good fresh loam from sod that has been piled for two years, such soil as

used for potting, and be sure it is free from other fungi. Turn it over five or six times to get it thoroughly mixed, and as soon as it has begun to heat it will be in right shape to put in the bed. Put in a layer and tramp evenly, making about three layers to the bed, getting it even with the top of boards. If the beds are slow in heating, boards laid on top of the manure will soon start it, when they should be removed at once. The great point is to get it firmed evenly, so that it will heat evenly and not settle unevenly. When the temperature of the bed is on the decline and the thermometer has fallen below the 100° mark, the bed is ready for the spawn.

Take the bricks and break them into pieces the size of walnuts, make a hole in the manure about three inches deep, drop in the spawn and cover up firmly; plant in rows ten inches apart each way; in ten



KAISERIN AUGUSTA VICTORIA ROSES.

days or two weeks the bed will be ready to cover with soil, the same as used to mix with the manure. The covering need not be as heavy at the sides of the bed as in the center. Make it two and one-half inches in the center so that the center is a little higher than the edges; put it on as evenly as possible, and firm smoothly with the back of the spade. When all is completed, wait patiently for the mushrooms and look closely after the temperature and moisture in the shed. A steam or hot water pipe from the rose house is sufficient to maintain a temperature of 60°, and when the roses require heat the mushrooms will and vice versa. The atmosphere of the shed should always be kept charged with moisture.

I well remember the first mushroom bed I assisted in making in "Auld Scotland," and anxious I was to see the modes, and watched day after day for mushrooms, and thought it was a failure; but the old laborer who bossed the job would say, "have patience, man; have patience." It was just thirteen weeks until they began to show, and soon there were lots. The test we had for moisture was to hang a piece of writing paper from the roof and make a mark on it with ink. If the ink would run the air was moist enough; but if the ink did not run, we sprinkled the floor and sometimes the beds with "milk warm water." With four beds, or even three if they do well, mushrooms can be cut every day of the year, and I believe the profits would more than pay for the shed in a year.

JOHN MURKIN.

#### Germantown and The Neck.

Those who know anything about Philadelphia know that it is a far cry from "The Neck" to "Germantown." In a city of some fourteen hundred thousand inhabitants there is necessarily much of the commonplace in a fourteen mile stretch. The focus of the best in retailing is crowded in a radius of about two miles from the magnificent city hall, and one does not expect to find much that is interesting in retailing outside of this limit. But in the course of my travels recently I have found two green spots far in the desert of the outlying city. One is the establishment of Albert Woltemate, in Germantown, the other John A. Shellem's, in "The Neck."

Just because Albert rides a bicycle, plays shuffleboard, rolls a good game at tennis, and does not talk you to death, you must not run away with the idea that he is a case of brawn versus brain. Go out to his place in Germantown, see the large area of glass he has got, and the immense variety and excellence of his stock, but above all notice the store in front of the greenhouses, and facing on the main street and you will quickly realize that you have found a man with original ideas and gifted with the executive ability to put them into force. The proprietor was personally waiting on a lady customer when I walked in. He did it well, too, I thought the right honorable had a space of gaiety about him I had never noticed before but you don't find out all about your young benedicts in a day, you know. I pretended not to be listening to the conversation.

"Ah me, how nice! How softly modulated the voice, how agreeable the pose! All business, you say? No sir! I consider it a clear case. Why? Well, because everything pointed that way and he smiles and here's the ducher—when the bill was figured up and the amount stated the lady looked so delighted and said "Why Mr. Woltemate! Is that all?" in a

gurgle that would have made a nightingale turn green with envy. By and by she departed, and with her the sunshine. Then my turn came. But his lordship was all dignity and business now; a big change, I can tell you. I found I could sell him neither timothy seed nor bulbs, nor any other old thing. Then I got reckless and said something about his prices being very reasonable sometimes, provided the lady was attractive. He went into an elaborate explanation about the value of doing the big-value act as an advertisement once in a while, and I let him go on and flounder. By and by he saw that he had been and gone and given himself away, so he abruptly switched off and caught up a shield with growing ferns on it, and began to rail at the man who invented such a troublesome thing to manage. I suppose the moral to this tale is, look out that you charge the ladies enough when the drummer is

However, Mrs. Blue Blood goes away, and John immediately becomes a democrat again, orders out the team and drives his visitor down to his greenhouses about a mile further into the gullet of "The Neck." There are seventeen houses, all of modern construction, and one is surprised to find such extent and variety of stock as is here grown. Carnations are extensively grown; I noticed fine batches of Scott, Daybreak, McGowan and others, as well as the newer sorts, such as Victor, Flora Hill, Mrs. Bradt, etc. The crotons were a surprise; very fine, healthy, vigorous, large variety, and all sizes. No wonder they took first prize at our last flower show. Palms, especially arecas, are a big item and are well done. Roses were not at their best during my visit. Rubbers and Asparagus Sprengerii were worth noting for excellence of culture, and are extensively grown. One thing that took my fancy



A CORNER OF ALBERT WOLTEMATE'S STORE.

around. But chaff aside, you will find Mr. Woltemate's place well worth a visit at all seasons, with a warm welcome that makes up in sincerity what it lacks in effusiveness. I can't tell you any more about him just now because my other oasis in the desert has to get a few words.

Mr. Shellem's store is at Seventeenth and Tasker, and has two display greenhouses behind. It is not a large store, but is well arranged and fitted up with all modern conveniences. There is an air of brisk business around; always some customers being waited on, mostly of the middle class, although occasionally a stylish turnout is seen to stop in front. Mrs. Drexel Biddle, in all her splendor, walked in yesterday and put an abrupt end to a pleasant conversation between the proprietor and the drummer. This may be a democratic country all right, but when the Cadwalladers and the Biddles and the Kittenhouses come around your wide-awake florist is a worshipper of the aristocracy pretty quick, and the drummer takes a back seat, no matter who he is—were he like Artemus Ward's langaroo, "the most amoesin' cuss in the whole menagerie," or even like William Scott's ideal drummer—that St. Albans Englishman—who blends instruction with amusement and tabs. I mean gets—your order without you knowing it.

greatly was a house of Luxonne violets; most charming sight, such a beautiful dark violet, of large size and very fragrant.

I must not spin my yarn too long, however, else my story of "The Neck" may get it in the neck (if you'll excuse that this once) when it reaches the editor, so will bid adieu to Mr. Shellem for the present.

G. C. WARSON.

#### The American Carnation Society.

On October 15, 1891, this society was born and named in the City of Brotherly Love. About three weeks later it met and completed its organization in the city of New York. The chrysanthemum show, which was held that year in Madison Square Garden, was in progress at the same time.

In the year 1899 this society will again meet in the city of its birth. We bespeak for this beneficent organization a hearty welcome. This society has certainly, in the few short years of its existence, improved its patron flower, and all floriculture has benefited thereby. We say this because we believe that the production of flowers of superior quality benefits everybody who is connected with the sale of flowers. It was rarely indeed that we heard of carnations selling at whole-

sale at from \$3 to \$4 per hundred; now we frequently hear of their bringing double that amount. It is true that only novelties bring the larger price named at present; but I am inclined to the belief that the quality of flowers of some of the future standard varieties will be so far improved that \$8 to \$10 will readily be realized for them wholesale. Not only have the varieties been improved since the organization of the society, but the methods of culture have been improved also. Systematic grading has been another factor in the right direction.

Perhaps the most surprising fact under the circumstances is that the society itself is said to be not self-sustaining. Is the annual fee too high? Would three times as many carnation growers who have been either directly or indirectly benefited by the society pay \$1 annual dues than now under the \$2 fee? Would a registration fee enough to pay at least for the time and trouble of doing the necessary work be paid without any thought of creating a fund? Something ought to be done to give the society enough money to sustain itself. The question is, whether we, the beneficiaries, can afford to accept all that the society is doing for us without contributing something for what we receive. It hardly seems to be right to expect so much from the society and render so little to its support, as many carnation growers are doing. The trade papers might contribute something substantial for the very practical matter which this society has been the cause of said trade papers publishing in their columns for their readers. The writers have given their best thoughts and experiences freely. The withholding of the essays from their columns was opposed by the trade papers simply because they were getting something for nothing, and frequently better than they could by purchase, even if they were ever so willing to pay for it. I repeat there must be something wrong when a society like the American Carnation Society is doing so much good and yet is poor. According to the secretary's report numerous carnation growers—who are not members—write him, for information valuable to them, and yet are sufficiently thoughtless, or worse,

to not enclose a 2-cent stamp to pay the postage on the reply. It seems strange that such things should be. There is one thing we can all do, and that is to hereafter enclose a 2-cent stamp to the secretary when writing to that official and a reply is expected. That will be one step towards reform. It is ten chances to one, when writing to the secretary, we are seeking information which is directly interesting to ourselves, and of no benefit whatever to either the secretary or the society.

Mr. Shel mire's idea of only offering cash prizes, or prizes of value, for only standard varieties would hardly benefit the carnation as a flower so much as offering inducements for the improvements of varieties as well as improvements in culture. Let the society's work be broad and deep even if it makes no cash by the operation. Let us devise ways and means for the American Carnation Society to make enough money to pay its way, and not throw the whole burden upon the willing few. E. L.

#### New York.

ELEVENTH ANNUAL DINNER OF THE NEW YORK FLORISTS' CLUB.—DECORATIONS AND SPEECHES.—BUSINESS FAIR FOR THE SEASON.—LOCAL NOTES.

The Florists' Club dinner at the Arena on Saturday evening was the great event of last week. For a number of years interest in this affair has appeared to be dying out, but the effect of the active management so noticeable in the club this year seems to have been to waken up the members and so there was a double row of smiles, sixty-eight in number, lined up at the long table when the welcome "Gentlemen be seated" was spoken by President Plumb. Down the center of the table was a fine array of the choicest flowers to be found in the New York market contributed from the cream of their product by many generous hearted members of the organization. It was a great combination; orchids and dress suits, lilacs and oratory, roses and wit, daffodils and laughter, carnations and music all sandwiched in between courses of solid and liquid refreshments until the resultant expansion forced the partakers

who had at first sat elbow to elbow, to sit sideways.

President Plumb made a few brief introductory remarks when the oratorical course was reached. He referred to the present prosperity of the club as due to the fact that the members had put their shoulders to the wheel, and hoped that it would continue until the club should have a home of its own. He then introduced Mr. Patrick O'Mara as toastmaster. Mr. O'Mara first read a number of letters from various gentlemen and the representatives of several clubs, some of them undoubtedly genuine, others so full of sparkling humor as to be attributed to the fertile brain of the witty gentleman who presented them. According to these effusions, the absence of the representatives of the Philadelphia organization was due to a set-to between the Duke and the Tall Sycamore of Darby Road; the non-appearance of the Boston club was owing to the fact that its members, including Warren Ewell, were still shoveling snow, and the Baltimore club was too busy manning the oyster fleet for protection against Spanish attack. A very giddy communication from the San Jose scale, some heavenly verses by J. Austin Shaw and a volley of applause for the grand old man of Flatbush, Mr. Chas. Zeller, who was the sole representative of that once influential borough, concluded the overture and the regular performance then began.

"Our Night" was the first toast and Mr. John H. Taylor to whom it was referred handled it well. "The Society of American Florists" brought W. A. Manda to his feet whose sentiment that only one aim should actuate all, viz., the general good, even at some self sacrifice, was received with great applause.

Next came Prof. J. B. Smith, his subject being the "American Experiment Stations." He proclaimed himself an entomologist, until recently regarded as a "mild sort of lunatic" because of his interest in bugology and gave such an interesting account of his profession and the classification of bugs in variety, including gold, silver and straddle bugs, that it was unanimously declared that he had "no flies on him" nor "scales" either. He



HOUSE OF JUBILEE CARNATIONS.

referred to the recent enactments for the exclusion of insect-infested plants as impracticable and said that the growers should depend more on their own efforts than on the law for protection. Knowledge, he declared to be what is most needed and this the experiment stations seek to impart.

W. N. Rudd, president of the American Carnation Society responded next for the "Sister Societies" and Dr. Britton of the New York Botanical Garden for the "Botanical Gardens." "Our Club, its Effect upon Society" was Treasurer C. B. Weathered's theme. "Charlie" divided his discourse into three heads, like a real minister, and proceeded with romantic logic to enlarge upon the glories of the social side of the club's life. The growers and the retailers were severally called upon to say a good word for themselves, but no response was elicited. The wholesalers being next called upon, John Young was presented as their spokesman, but he asked the band to respond for him, which they did by playing a combination of "Streets of Cairo" and "Hot Time in the Old Town." Alex. Wallace spoke for the "Horticultural Press." R. W. Lucas for the "Seedsmen" and Mr. Brogan for his friends in general.

Mr. Herrington took care of the gardeners' reputation and Mr. Imbert performed a similar service for the amateurs. Then came reciprocal compliments to the chairman, the toastmaster, John Turner and his assistants in the musical department and the decoration committee, followed by "Auld Lang Syne" and a medley of patriotic music, and the curtain was finally rung down somewhere between midnight and dawn.

Trade has started in very unsatisfactory this week. Large quantities of everything in the cut flower line are coming in and prices are very low on lily of the valley, carnations, roses, etc. Von Sion daffodils are improving. Smilax is still scarce. Violets badly in the dumps. Cut of Beauty roses is getting heavier and prices must soon take a drop.

M. A. Hart has taken the store at E. W. Twenty-ninth street just vacated by H. A. Hoffman.

Clary & Co. will begin their series of spring auction sales on March 16, with the usual stock of dormant imported trees, shrubs, etc., and will thereafter hold regular sales every Tuesday and Friday.

The AMERICAN FLORIST has just erected a handsome advertising sign at the Cut Flower Market on East Thirty-fourth street, directly opposite the entrance, and it attracts much attention.

Mr. A. T. De la Mare is not in sight and it is whispered that he has quietly slipped away on his honeymoon.

E. V. Low, who has been here on a brief visit sailed for England on the Teutonic, February 27.

Alfred Timmoch arrived from England on Saturday 26th.

Recent visitors: W. N. Rudd, Chicago, and P. J. Donoghue, Lenox, Mass.

#### Greenhouses in the West.

The location of the greenhouses of J. F. Wilcox, of Council Bluffs, Iowa, is certainly an ideal one. They are built on a hillside, facing south, and are protected from the north and northwest winds. About one fourth of the houses are built equal span, running north and south, and are mostly used for palms, ferns and bedding stock. The balance of the houses are three quarter span, long span to the

south. These are used for the growing of roses, carnations and smilax.

The system of feeding is claimed to be very complete. Having a hill that gives about eighty-foot fall, two large cisterns are placed on the top. The manure is hauled there by the wagon-load, put into one and allowed to ferment, and then drawn off into the other, where it can be diluted to the proper strength for use. When this is required, the water is allowed to drain from the pipes, the hose then attached, and the liquid manure used with as much ease and as little trouble as though it were city water.

#### Philadelphia.

BUSINESS QUIET.—EASTER LILIES IN DEMAND.—INTERESTING MEETING OF THE FLORISTS' CLUB.—W. P. CRAIG JOINS HIS FATHER IN BUSINESS.

Business is a trifle quieter and stock is commencing to accumulate. Prices have fallen very little as yet, however, those of last week being about the average. The quality of most of the flowers is quite up to standard. Early in the week Maids were off color, the sun burning it out of the soft buds formed during the cloudy days of last week. Brides are now coming in with that pretty blush tint so much admired by many, and the strong shoots now being thrown up by these teas are producing many specials. Carnations are blooming a little more freely, and a fairly good flower can now be had for \$1.50 per 100. Varieties that can be called standard in this market are McGowan, Portia, Scott, Cartledge, Tidal Wave, Eldorado and Daybreak. These are the everyday always-to-be-had kinds. Victor, Flora Hill and quite a few of the new ones are seen in limited quantities and are fine, but we doubt if any of the above mentioned list will be crowded out for the next year or two. We could not pick out the ones to be laid away. Quite a few Brunners are now coming in, Anderson, Burton and Heacock each having a house in good condition. Four dollars per dozen is high, although we hear that one grower says that his best must bring \$5 or home they go to enrich his compost heap. There is nothing like independence; it was that which made this country what it is, and indifference to the appeals of the dealers has made some growers what

they are. It is rumored that one grower has sold his house, or all the good flowers at least, to an out of town firm; lucky grower! his compost heap is safe for this season at least.

We hear of a firm from out of town who want 5000 Harrisii cut lilies for the end of March. This will take about 1000 plants and carry off quite a few that escaped the disease. Although quite some distance away it behooves the dealer to get about if he desires the best for his Easter stock, as the particularly pretty plants are all too soon guarded with the label "sold."

Rambler roses will no doubt be in great demand, and the problem as to whether there will be lilies enough to go around will be settled in the next few weeks.

The March meeting of the club was all right; there was a good attendance and the proceedings were of such a character that none of the members were found asleep when President Harris declared the motion to adjourn carried. One active and three associate members were elected. It was decided by vote to arrange for a shad dinner and all present were declared responsible for any deficit in connection with the affair as no one voted in the negative. A committee was appointed to make the necessary arrangements for the meeting of the convention of the Carnation Society in 1899. The paper on carnations, by Wm. P. Craig, was one of the best on the subject ever read before the club. He told about varieties and their peculiarities as he knew them in a bold and fearless manner, and his essay should be read by all those intending to plant new varieties the coming season.

Mr. W. N. Rudd, of Chicago, who was present, said, in speaking of the recent carnation meeting and the varieties exhibited, that two very good kinds labored under difficulties and failed to get certificates, one the Wellesley, on account of arriving too early, and Maud Adams, because a plant did not accompany the exhibit. Both these varieties were very good and he thought deserving of certificates, and probably failed to get them for the reasons given. Mr. Herr coincided with Mr. Rudd and said he thought Maud Adams a particularly fine variety and worthy of a certificate. Mr. Burton spoke of the variety Harrison's White, a supposed sport from Scott. He said that



GREENHOUSES OF J. F. WILCOX, COUNCIL BLUFFS, IOWA.



the introducers were being blamed unjustly for the failure of this kind the present season, as without exception all who had seen it growing last year were much pleased and purchased for the most part on their own judgment. This year it had failed everywhere and he thought it wrong to lay the blame on those who sent it out, as it was thought so good by all who had seen it. He could not account for the reversion of form. Mr. Robert Craig said it had seemed singular to him how this promising kind had turned out so badly, proving such a disappointment everywhere; he could not explain it. Mr. Burton said that to say it was not a sport from Scott was not enough, there must be something more. Mr. F. A. Chapman, of Grand Rapids, Mich., was at the meeting.

The lily question is to be discussed at the April gathering, and great preparations are being made to make it of much interest to growers of these plants.

William P. Craig, oldest son of Robert Craig, of Philadelphia, has been admitted to an interest in his father's business. On and after March 1 the firm will be Robert Craig & Son, and will combine the establishments at Forty-ninth and Market streets and Sixty-first and Market streets, the former being devoted mostly to commercial plants such as palms, rubbers, ficus, etc., and the latter to cut blooms, and young stock of roses and carnations. William P. Craig is 26 years of age and besides having been born and bred in the business, and actively identified with his father at the old homestead, he served an apprenticeship under John N. May at Summit, N. J., an able and energetic tutor whose influence on the young man's development has evidently been very marked.

#### London.

Chrysanthemums now take up so much attention and go so far in the way of supplying cut bloom throughout the winter that many other useful subjects seem in danger of being entirely neglected; however, if we get a few autumns like the past one, growers will get tired of going in for such large quantities of 'mums, for the prices realized cannot have been remunerative. In fact many growers must have sustained a considerable loss; for our markets were considerably over-stocked. As is always the case, some special sorts sold fairly well. Among yellows I may mention *Modesto* as being a general favorite. Western King proved to be one of the grandest whites, though at the national chrysanthemum society's show it was not so prominent as I expected to see it. *Niveus* was shown in grand condition, being far ahead of all other whites for size. Growers do not seem to make much advance in pot chrysanthemums for exhibition; but for market work there is considerable advance shown, and these have been considerably better trade during the past season than cut blooms. I think if our societies would encourage the culture of useful market size plants, by offering good prizes for collections of dwarf well-grown plants, it would be better than encouraging the large specimens, which are of little use except for exhibition. The same may be said of the large blooms on the tops of long single stems.

The weather being mild poinsettias have been used freely and few things found a more ready sale. I believe if the supply had been double what it was they would have all been cleared up. It is rather surprising that growers do not go

in for these more extensively for they take a short time compared with most flowering plants, and give little trouble. A common mistake is, perhaps that they are often started too early in the season, in which case they get too tall and are also more liable to lose their leaves. Strong cuttings put in early in July I find make the best plants. During the warm weather they are better without artificial heat, but as soon as the nights begin to get chilly heat must be given. They may be kept cool for a considerable time and will not appear to suffer, but as soon as they are given a higher temperature the leaves will drop off. When required only for cutting they may be planted out with advantage, and with good treatment will make larger bracts than when confined to pots.

*Begonia Gloire de Lorraine* is the most popular addition to our winter flowering plants that we have had for many years. It has been in commerce longer than many seem to think. It received a first-class certificate from the Royal Horticultural Society in 1893, and I believe it had then been in this country two or three years. *Begonias* usually drop their bloom so soon, that growers generally are prejudiced against them, but the above is quite an exception. Under fair conditions the bloom holds on well; this is perhaps owing to the absence of female flowers. However this may be, one thing is certain, that is, it would be difficult to find a more profuse and continual flowering variety, the color is also of such a pleasing shade of pink. Mr. H. B. May was probably the first grower to popularize it. During last autumn a large house filled with it was a grand sight. The largest plants were in 6-inch pots, and measured a little over two feet in diameter, and about the same in height; these were perfect balls of pink. The first plants were well in flower about the middle of September, and now at the time of writing (February 8), there are still plants well covered with bloom. I may add that in spite of the prejudice against *begonias*, some thousands have been sold, and from first to last commanded a good price.

I lately saw a fine batch of *Ficus radicans variegata* at Mr. W. Bull's nursery. It is not yet in commerce, but I understand Mr. Bull intends offering it this spring. Good variegated plants for edging are not too numerous, and this pretty drooping ficus will undoubtedly become a great favorite. *Ficus repens* is extensively used for covering walls, for hanging baskets and for the edging of groups; *radicans* is not so well known but is equally useful; the leaves are rather longer and more pointed. The variety referred to above has a broad marginal band of pure white. In a large batch of plants I saw no sign of its reverting to the green form. Some of the pots were suspended from the roof of the house and were beautifully covered with the bright green and white foliage.

*Dracena Sanderiana* is a fine plant for florists' work; the beautiful silvery grey foliage has a pure white margin. The leaves are small and short compared with most of the genus, and the plant grows quite erect. Singly there is not enough of it for a table plant, but three or more grown together in the same pot are very effective. Smaller plants are also very useful for mixing with ferns in baskets and vases.

*Asparagus Sprengerii* does not seem to take as a pot plant, but for suspended baskets it is one of the finest plants we have, and it seems to thrive better when grown in this manner than when confined

to pots. It makes such a quantity of thick, fleshy roots that it is difficult to get a good plant in a moderate sized pot. I have seen several specimens in flower, but it does not appear to set freely, though I have seen plants well berried, and when ripe the berries are of a bright coral red and add much to the beauty of the plant. It is when plants are grown cool and well exposed to air that they flower and set their berries best.

A friend of mine recently showed me a photograph of a monster chrysanthemum which he had received from Japan. It represented a single plant grown in a tub. It had 812 blooms, the smallest of which measured nearly nine inches across; the plant appeared to be of oval shape and tied out symmetrically. The measurements given were 10x15 feet and six and one-half feet high. This certainly beats the record as far as anything I have seen or heard of.

Few industries have made such rapid strides as horticulture under glass. The acres and acres of ground which have been covered with glass within the last few years indicate that the trade must be in a flourishing condition, for in addition to new firms springing up, all the leading growers add extensively every year. In traveling from nine to fifteen miles north of London one sees new glass houses springing up in all directions. The modern glass houses are quite a different class of buildings to older erections; and though not so durable, a maximum amount of light is gained at a minimum cost. As an instance of the progress being made I may mention that one grower is adding fifty-two houses to his already extensive erections. These are upwards of 200 feet long and thirty feet wide. Grapes, tomatoes and cucumbers, command the greatest share of attention, though plants, both for cutting and pots, are by no means neglected. Mr. Thomas Rochford (an account of whose nurseries appeared in the AMERICAN FLORIST some time ago) has long been known as one of our most successful plant growers, and has proved equally successful in his latest venture, orchid growing. He has now one of the healthiest and most extensive stocks in the country, and among importations some grand varieties have turned up.

LONDON CORRESPONDENT.

#### Worcester, Mass.

There has been considerable public interest in the parks commission of late, which has led to a good deal of argument in the papers and to disagreements within that board; and in consequence one member of the commission has already resigned, and another has announced his intention of resigning at an early date.

Mr. Chas. Greenwood has been elected city forester and will have about 10,000 shade trees under his care. Mr. Greenwood has been judge of vegetables at the Horticultural Society for a number of years.

The fourth annual meeting of the Massachusetts Fruit Growers' Association will be held at Horticultural Hall in this city, March 9 and 10.

Trade is brisk and flowers are plentiful.  
A. H. L.

ALLENTOWN, PA.—J. F. Horn is about to move his store from 514 Hamilton street, to 20 North Sixth street.

COLUMBUS, O.—The Columbus Floral Co. have gone out of business.

## THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to see  
sure insertion in the issue for the following Saturday  
Address THE AMERICAN FLORIST CO., Chicago.

A very interesting letter from our Paris  
correspondent will appear in the next  
issue.

Subscribers who have paid their subscrip-  
tion for the year 1898 will be allowed  
a commission of fifty cents on each new  
paid subscription to the AMERICAN FLORIST  
which they may send in.

IT SOMETIMES happens that copies of  
the AMERICAN FLORIST are lost in the  
mails. Notify us at once if the paper does  
not reach you regularly. Missing num-  
bers will be replaced, and the cause of the  
trouble will be found and corrected.

### Diseased Geraniums.

ED. AM. FLORIST:—The plants sent here-  
with for your examination were grown  
in a mixed greenhouse where the average  
temperature is about 60, and although  
taken from clean healthy stock in the  
field, many of the cuttings showed the  
disease before ready to take from the land.  
Some plants last year which were affected  
in the same way were set out in the border,  
but did not seem to recover.

ARTHUR R. SMITH.

If the writer had carefully described the  
disease, as it appeared to him in the  
greenhouse and in the field, he would have  
done a good service to other florists, and  
have stood a better chance of obtaining  
the information he desires. The cuttings  
sent with the inquiry, somewhat belated  
in the mail and not in the best condition,  
showed blackened spots of irregular size  
and extent, especially upon the forming  
leaves. They looked like rotten spots  
during the early stages of decay especially  
when put into water. Presumably these  
spots occurred upon any part of the stem  
or leaves, but more particularly the  
youngest parts, enlarging indefinitely.  
As these specimens reached me, the spots  
were rather hard, having dried out more  
than the well parts.

Thorough examination shows the en-  
tire absence of any fungus or insect. The  
dead cells are, however, infested with bac-  
teria. These may be the cause of the  
disease, or they may be ordinary decay  
bacteria. It would be rash to attempt an  
opinion and unimpaired and ample mater-  
ial can be examined.

It is a contagious bacterial disease,  
the disease of leaves and stems should be  
gathered and burned at frequent inter-  
vals, and at the first opportunity the  
house should be emptied and disinfected  
and thoroughly with burning sulphur,  
and the whole stock of geraniums dis-  
carded and replenished from a distance.

But in view of cultural conditions,  
which seem more probable, only that it is  
and to prevent them out of doors, the  
lighting, watering and ventilating should  
be looked to. And especially watch for  
mould following investigation. The trouble  
is apparently of a very way connected  
with the roots. J. C. ALLEN.

### A Border of Herbaceous Plants.

ED. AM. FLORIST: I have a border  
seventy-five feet long and irregular in  
width, varying from four to six feet, which  
I desire to put in hardy stuff, so as to  
keep up a continuous bloom from May to  
November. It is fully exposed to the sun  
all day, facing south. Do not want any  
shrubby, but principally stuff of a low  
growing nature. Please give me a list of  
suitable kinds with the number of each  
required, and their positions in the bed.

L.  
It is presumed that L. has duly pre-  
pared his border for planting, that the  
soil has been well mixed with old manure  
and is loosened to a good depth, for the  
plants to be introduced are not expected  
to be disturbed for some years, therefore  
they need all the food that can be stored up  
for them in the ground. To give the  
exact number of plants to be used in  
planting when I do not know what pro-  
portion of the border is narrow or wider  
is not possible. The planting has to be  
done by some experienced person who  
has a fair knowledge of the habit and  
growth of these plants, because many of  
the low and dwarf species require close  
planting while rank or spreading growers  
need more room. If all were planted at  
an equal distance apart we would find  
bare spots in one section of the border  
and overcrowded patches in another, so  
the man intrusted with the arrangement  
should necessarily be familiar with the  
various subjects and use his judgment  
accordingly. It is far more satisfactory  
to plant in groups or irregularly shaped  
patches, using from five to twelve or even  
more plants of the same variety in each  
plot, than to adhere to the old way of  
mixing up single plants all over the bed;  
most of the plants show their individual  
characteristics to better advantage under  
such arrangement and the display of  
bloom is surely more effective when  
planted in masses. I will mention now a  
simple arrangement in which each species  
is planted in a separate patch and the  
planting may be begun at either end of  
the border, using the odd or uneven num-  
bers in the back part of the bed because  
they grow taller than the others. 1.  
Aster corymbosus. 2. Polemonium reptans.  
3. Centranthus ruber. 4. Iris pumila.  
5. Polygonum cuspidatum. 6. Oenothera  
glauca. 7. Helianthus autumnale. 8.  
Phlox aurea. 9. Mourdia didyma.  
10. Dicentra eximia. 11. Phlox subulata.  
12. Campanula Carpathica. 13. Rudbeckia  
hirta. 14. Daphne eucorum. 15. Spiraea  
ulmaria fl. pl. 16. Phlox subulata alba.  
17. Aquilegia scerulea. 18. Heuchera  
sanguinea. 19. Gaillardia grandiflora. 20.  
Lycnis scempiflorens fl. pl. 21. Centaurea  
montana. 22. Erysimum pulchellum. 23. Iris  
Germanica. 24. Armeria maritima. 25. Anemone  
japonica. 26. Alyssum saxatile. 27.  
Rudbeckia pinnata. 28. Arabis alpina.  
29. Delphinium hybridum. 30. Lycnis  
viscaria fl. pl. 31. Coreopsis lanceo-  
lata. 32. Viola cornuta. 33. Spiraea  
palmata elegans. 34. Papaver nudicaule.  
35. Pyrethrum roseum. 36. Dianthus  
caryophyllus. J. B. K.

### Boston.

SEVEN OF TRADE. CARNATION EXHIBITION.  
PETER FISHER WINS THREE CUPS.  
CLUB MEETING. SORTON'S BOY ROBBED.

Business is fair, considering the season,  
but the baby, lamb-like weather which  
has come in with the month of March has  
somewhat retarded the production of flowers that  
the accumulation in wholesalers' hands  
has forced prices down somewhat, with

prospects of a still heavier drop if present  
weather conditions should continue.

The competition for the cups offered at  
the exhibition of carnations held Saturday  
at the Florists' Market brought out an ex-  
tensive display of novelties of 1898 which  
were greatly admired by a large number  
of carnationists from around Boston, and  
many visitors from a distance. Directly  
upon the center of the table in front of the  
door was a large vase of 100 blooms of  
Peter Fisher's seedling, Mrs. Thomas W.  
Lawson, and although there were many  
other handsome vases of the divine flower  
upon the other tables yet this certainly  
eclipsed them all, for the judges awarded  
this variety three of the four cups offered,  
the Breck cup for the best novelty, the Law-  
son cup for the best 100 blooms of any  
dark pink variety not yet disseminated  
and the Galvin cup for the best American  
seedling not yet disseminated. The Cot-  
tage Garden cup, presented by C. W. Ward  
for the best new scarlet carnation for com-  
mercial purposes, was awarded to F. A.  
Blake, of Rochdale, for Bon Ton.

The growers of this vicinity were en-  
abled to form a good idea of nearly all  
the novelties of the year, for the following  
were exhibited: Evelina, from Richard  
Witterstaetter, of Cincinnati; Genesee,  
from D. B. Long, of Buffalo, and Argyle,  
from Stollery Bros., of Chicago. C. W.  
Ward made a fine display, showing White  
Cloud, John Young, Gold Nugget, Bon  
Ton, New York and Mrs. Jas. Dean. E. G.  
Hill was on from Richmond, Ind., and  
staged vases of Arbutus, Scarlet Queen,  
Painted Lady, and some very handsome  
blooms of standard varieties. C. Besold,  
of Mineola, L. I., was also present with  
his beautiful pink seedling, Mrs. Frances  
Joost. H. Grout, of Springfield, showed  
Conch Shell, and J. Tailby & Son made a  
fine display of their scarlet novelty,  
Wellesley. H. Weber & Son, of Oakland,  
Md., exhibited a handsome bunch of the  
new rose, Mrs. Robert Garrett. The car-  
nations were judged by the scale of points  
adopted by the American Carnation  
Society. Wm. Nicholson, H. Weber and  
M. H. Norton acted as the judges.

One of the boys employed at Norton  
Bros. was "held up" on Saturday evening  
by a man who had left an order, purport-  
ing to be from Mrs. J. L. Gardner, for a  
lot of violets to be sent to her residence  
with money sufficient to make change for  
a ten dollar bill. The boy started with  
the violets and money, and the fellow,  
who had accompanied him, pulled a  
revolver as they passed through an un-  
frequented place and demanded the money.  
The boy gave it up and returned in terror  
to the store. The police were at once  
notified but failed to catch the highway-  
man, although it was afterwards learned  
that he had successfully worked the same  
game on a messenger from Galvin's store  
and two other places.

Reports from many places out of town  
tell of greenhouses flooded during the  
heavy rain storm of a week ago and more  
or less damage resulting from the putting  
out of fires under the boilers. The tem-  
perature was fortunately not low enough  
to cause any very great injury to plants  
from exposure.

The Gardeners' and Florists' Club met  
on Tuesday evening and an audience of  
thirty-five listened to a paper by Mr.  
Emil Mische, his subject being "The  
Royal Gardens at Kew." The treasurer's  
report for 1897 was presented and ac-  
cepted.

Visitors in town: E. G. Hill, Richmond,  
Ind.; C. Besold, Mineola, N. Y.; H. Weber,  
Oakland, Md.; W. H. Moon, Morrisville,  
Pa.

**SITUATIONS, WANTS, FOR SALE.**

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.  
Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By a first-class rose grower; 15 years' experience. Good references. Address D. W., care American Florist.

**SITUATION WANTED**—By young man to learn the florist trade; moderate wages. J. B., 307 E. King St., Lancaster, Pa.

**SITUATION WANTED**—By a competent store man, late with Feldman; reference given by Chicago wholesale florists. R. A., care Am. Florist.

**SITUATION WANTED**—By a good general greenhouse and cut flower worker; 7 years' experience. Address WILLING, care American Florist.

**SITUATION WANTED**—By an experienced gardener and florist, Swede, to take charge of private place. Address W. NELSON, 98 Sedwick St., Chicago.

**SITUATION WANTED**—By retail cut flower worker and decorator. Best of reference; 15 years' experience. Address B. J., care American Florist.

**SITUATION WANTED**—By an experienced gardener and florist, to take charge of private or commercial place; age 33, married. W. S., care Am. Florist.

**SITUATION WANTED**—By a general outflow grower; good decorator. Recommendations furnished; German American; 30 years old. Address V. G., care American Florist.

**SITUATION WANTED**—By a competent florist, five years' experience, reliable in every respect, single; able to take charge; good wages expected. Address Y. S., care American Florist.

**SITUATION WANTED**—By first-class cut flower grower; specialist in roses; 15 years' experience, married, age 32; state wages. Address F. D. C., care American Florist.

**SITUATION WANTED**—As foreman of a first-class cut flower growing establishment. In reply describe place and name satisfactory. References. NIXON H. GANO, Richmond, Ind.

**SITUATION WANTED**—By an experienced gardener and florist, to take charge of private or commercial place; age 33, married. Best of references. CHICAGO, care American Florist.

**SITUATION WANTED**—By young man to learn the florist trade; sober and reliable; state terms. Address W. C. GREGORY, Box 92, Markham P. O., Ontario, Canada.

**SITUATION WANTED**—By a florist and gardener; he can't do heavy work because he has had one leg broken, but is willing to do light work cheap. Address B., care Nilsen, 201 W. 12th St., New York.

**SITUATION WANTED**—A competent seedman wants situation with a reliable seed house; can speak Dutch, German or English; correspondence solicited. H., care American Florist.

**SITUATION WANTED**—By married man, as rose grower or foreman; good grower of cut flowers and general greenhouse plants. First-class references; state wages. Address R. D., care Am. Florist.

**SITUATION WANTED**—As foreman in first-class establishment; specialities, roses, mums, carnations, orchids, etc.; life experience; well up in other branches of the profession. CO., care Am. Florist.

**SITUATION WANTED**—By practical florist, age 40, German, single; good grower of cut flowers and general bedding plants; good wages expected. References. FLORIST, Cleveland State Hospital, Ohio.

**SITUATION WANTED**—By middle-aged gardener and florist with large experience in this country and Europe, especially in greenhouse culture of all kinds; private place preferred. Address E. M., care American Florist.

**SITUATION WANTED**—By gardener, Swede (23), as assistant; understands greenhouse work in general, good worker, honest, sober, etc. State particulars. Address G. P., care Mrs. Coughlin, 303 East 11th St., So. Boston, Mass.

**SITUATION WANTED**—By practical florist of 17 years' experience, good cut flower grower, roses, carnations, etc. Competent to take charge; would work on shares. Reference and bond given. Address RELIABLE, care American Florist.

**SITUATION WANTED**—As foreman by practical florist and grower, specialty in roses, carnations, mums, violets, general stock, etc.; now disengaged; age 38. Best references. Address W. H., care 104 E. Main St., Alliance, O.

**SITUATION WANTED**—By practical, all-round florist and gardener; 12 years' experience in eastern and western states. All references from present and former employer; well up in floral work. Address H. T., 201 Creighton St., Ottawa, Canada.

**SITUATION WANTED**—By an experienced gardener and florist, to take charge of private place; would like to go to California; Englishman, married, no family. Best of references. Address JAS. CHEED, 724 Irving St., Syracuse, N. Y.

**SITUATION WANTED**—By an experienced grower of florists' stock, roses and carnations, a specialty, as foreman; will invest \$500 in place if a live one and near a good market. For particulars address BUSINESS PARTNER, care American Florist.

**SITUATION WANTED**—By a florist with life experience in growing cut flowers and plants as working foreman; has been holding a similar position; Am. Beauty a specialty; age 30 and married. All references. E. Y., care American Florist.

**SITUATION WANTED**—By a landscape gardener and florist, married 40 years old, experienced in flowers, vegetables, fruits; not afraid of work; has tended horses and cow. Best of recommendations. Address J. K., care American Florist.

**SITUATION WANTED**—As foreman with some refined party by a practical grower of roses, carnations, violets, mums, palms, ferns and general stock, forcing of bulbs; a life experience; references O. K. Address FOREMAN, care American Florist.

**SITUATION WANTED**—As manager of park or private place; young German-American desires engagements; thoroughly experienced in all branches. Can furnish best of references; married, family of two. Address R. S. L., care American Florist.

**SITUATION WANTED**—By a well-experienced foreman, a hustler, good manager, first-class rose and cut flower grower. Best of references. Only first-class parties need apply; open for engagement to suit employer. Address FOREMAN, care Am. Florist.

**SITUATION WANTED**—By a thorough, practical florist; German, single; 20 years' experience in all branches and 8 years' experience in growing roses and carnations. Competent to take charge. References All. Address FLORIST, 45 8th St., Cincinnati, O.

**SITUATION WANTED**—By practical florist and rose grower; No. 1 on Beauties and Meteoros, good propagator, life experience; competent to take charge as foreman; middle age, married, small family. Address FLORIST, care Max Von Oeyen, 1033 Belmont Ave., Chicago.

**SITUATION WANTED**—By a first-class grower of roses, mums, carnations, violets, etc. and general greenhouse stock, as working foreman or assistant in large commercial place; 16 years' experience, age 33, single; state wages. Best of references. Address G. S., care American Florist.

**SITUATION WANTED**—By young single man, general commercial place; 13 years' experience, all branches, England and America; specialities roses and carnations; sober and reliable. References. State particulars and wages. HARRY DONNELLY, 355 Pawtucket Ave., Pawtucket, R. I.

**SITUATION WANTED**—By a landscape gardener and florist, German, married, 33 years old; 23 years' experience in flowers, vegetables, fruits, care of pleasure grounds and bathouses; position in private park, cemetery or gentleman's place in city or country. Best of recommendations. Address H. SCHEWAT, care American Florist.

**SITUATION WANTED**—As foreman in cut flower establishment, mostly roses and carnations; must be up to date in conveniences; by all-round man, single, American, nine years' experience; don't use tobacco or drink; west preferred; good wages expected. References. ROSES, 2640 Cottage Grove Ave., Des Moines, Ia.

**SITUATION WANTED**—By successful rose grower, who has devoted all his life to the rose culture; well posted in cut flower designs and bouquets; capable to take entire charge; commercial place preferred; to suitable parties greatest satisfaction assured; satisfactory references. Address EMIL LEFEVRE, 414 Hopkins St., Cincinnati, O.

**SITUATION WANTED**—As foreman or manager in large commercial place by a first-class grower of roses, carnations, mums and general stock; life experience, married, age 36, has been foreman in large establishments for the past ten years; only reliable parties who wish a first-class man need answer; best of references. Address ROSE GROWER, care American Florist.

**WANTED**—The address of Carl Jorgensen, Dane, Amager. Address L. JENSEN, South Butte, Mont.

**WANTED**—A steady and reliable man for general greenhouse work. Address H. MAENNER Maspeth, L. I. N. Y.

**WANTED**—Young man to take charge of florist business and take interest in business. Address NEW YORK, care American Florist.

**WANTED**—A man who thoroughly understands the growing of palms and ferns. Apply to VAUGHAN'S GREENHOUSES, Western Springs, Ill.

**WANTED**—From eastern Penna. and northern Maryland, quotations on 300 cut carnations a week. Lowest price on good stock. Address B. CARNATIONS, care Am. Florist.

**WANTED**—Reliable man with general knowledge of greenhouse stock and palms, principally bedding plants, to do propagating and look after two houses. Address E. A. ELLTON, Morristown, N. J.

**WANTED**—By the Greenville (Texas) Floral and Nursery Co., catalogues and wholesale price lists of reliable dealers in their line. They will buy a whole lot of stock and pay cash.

**WANTED**—Man, married or single, with general knowledge of horticulture, to work on agricultural experiment station; wages \$40; orchard, greenhouse, garden; new country, fine climate. Address J. A. BALMER, Pullman, Wash.

**WANTED**—Young man 16 to 18 years old; only one who wants to devote his full time to the study of the business; no previous experience necessary, but brains and push found. Address MASSACHUSETTS, care Am. Florist.

**WANTED**—A competent man for cut flower department and making up floral designs and bouquet work; also one that understands decorating and general greenhouse work. Apply CHARLESTON GREENHOUSES, 309 Meeting St., Charleston, S. C.

**WANTED**—Young man thoroughly experienced in the best class of retail florist business; must be first-class in window, table and wedding decorations, also design work. Apply with references, ability, etc., stating wages expected. J. H. DUNLOP, 445 Yonge St., Toronto, Can.

**TO RENT**—14,000 feet of glass consisting of 7 even-span, north and south houses, near Philadelphia. X, care American Florist.

**FOR SALE**—One Alaska refrigerator in first-class condition. JOHN H. ORTH & Co., McKeesport, Pa.

**FOR RENT**—Seven greenhouses, stocked; dwelling and land, steam heat; convenient for Baltimore wholesale market, and fair local trade. Address MARYLAND, care American Florist.

**FOR SALE OR FOR RENT**—Three greenhouses and residence at Rogers Park. For particulars call or address P. G., Room 6, 127 West St., Chicago, Ill.

**FOR RENT**—Greenhouse plant of 5,000 feet of glass in Jamestown, N. D.; price \$1,500; 1/3 cash, balance may be paid in cut flowers. Address W. W. SEEKINS, 321 E. 3rd St., Duluth, Minn.

**FOR SALE**—Greenhouse plant of 5,000 feet of glass in Jamestown, N. D.; price \$1,500; 1/3 cash, balance may be paid in cut flowers. Address W. W. SEEKINS, 321 E. 3rd St., Duluth, Minn.

**FOR SALE**—An old-established florist business, Greenhouses well stocked; residence, outbuildings, 50 acres of land, on the line of R. R.; would sell before Easter for benefit of Easter trade. Death cause of selling. A. M., care American Florist.

**FOR SALE**—An old-established florist business, Greenhouses well stocked; residence, outbuildings, 50 acres of land, on the line of R. R.; would sell before Easter for benefit of Easter trade. Death cause of selling. A. M., care American Florist.

**FOR SALE**—Two greenhouses with 21 acres of land, in town of about 10,000, between two good markets, Buffalo and Rochester; reason for selling, recent death of proprietor. Address A. WILLIAMS, 27 Pearl St., Batavia, N. Y.

**FOR SALE**—Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write A. LEIBNER, Wausau, Wis.

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**WANTED**—Situation as grower or salesman in commercial establishment. Can furnish excellent recommendations. Eight years with Fred C. Becker. ANDREW, 45 Hancock St., Cambridge, Mass.

**WANTED**—A large quantity of Boston Fern. State size and lowest cash price per thousand. Address . . . S. J., care American Florist, Eastern Office, 67 Bromfield St., Boston, Mass.

**FOR SALE**—Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write ELLIS & POLL WORTH, Milwaukee, Wis.

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 WIRE WORK  
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 Prompt attention to shipping orders.

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**ROOTED GARNATION CUTTINGS**  
 Albertina and Bride'smaid, \$2.00 per 100;  
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**WINTER & GLOVER,**  
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**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
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**WIPE DESIGNS: A Full Line.** Write us for  
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**SPRING BULBS**  
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 All the leading varieties in Carna-  
 tion Rooted Cuttings  
 Best varieties of Young Roses in 2 1/2-in. Pots.  
 Fine well cured Pearl Tuberosa Bulbs, per 1000, \$ 7.50  
 Extra fine mixed Gladioli Bulbs, per 1000, 12.50  
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 Roses, Beauties . . . . . per doz. 1.50@4.00  
 " Brides . . . . . 3.00@ 5.00  
 " Meteors, Bride'smaid, Kaleerita . . . . . 3.00@ 5.00  
 " Perle, Gontiers . . . . . 2.00@ 4.00  
 " La France, Testout . . . . . 3.00@ 6.00  
 Carnations, common . . . . . 1.00@ 2.00  
 " fancy . . . . . 2.00@ 5.00  
 Violets . . . . . 3.00@ 7.75  
 Narcissus, Romans . . . . . 2.00@ 3.00  
 Callas . . . . . 8.00@10.00  
 Harriell . . . . . 8.10@10.00  
 Valley . . . . . 2.00@ 3.00  
 Tulips . . . . . 1.00@ 5.00  
 Von Sion . . . . . 2.00  
 Hyacinths . . . . . 4.00@10.00  
 Adiantum . . . . . 1.00  
 Smilax . . . . . 10.00@12.00  
 Asparagus . . . . . 50.00@75.00

**W. E. LYNCH,**  
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 All Florists' Supplies.  
 19 & 21 RANDOLPH STREET,  
 Fine Stock a Specialty. CHICAGO.

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 DON'T FORGET that we are at the old number,  
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 Open for Cut Flower Sales at 6 o'clock  
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 Special Attention Given to Shipping Orders.

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 HEADQUARTERS FOR AMERICAN BEAUTIES.

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**BASSETT & WASHBURN** 88 Wabash Ave. CHICAGO  
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NEW YORK, March 2.	
Roses, Beauty.....	10.00@50.00
" Br des. Bridesmaid.....	2.00@ 6.00
" Testout, Carnot.....	3.00@ 8.00
" Morgan, Meteor.....	2.00@ 6.00
Carnations.....	1.00@ 1.50
" fancy.....	1.50@ 3.00
Valley.....	1.00@ 3.00
Mignonette.....	2.00@ 6.00
Violets.....	.50@ .60
Harris.....	4.00@ 6.00
Tulips.....	1.50@ 3.00
Daffodils, Jonquils.....	1.00@ 3.00
BOSTON, March 2.	
Roses, Beauties.....	15.00@50.00
" Perle, Niphotos.....	2.00@ 4.00
" Bride, Bridesmaid, Morgans.....	4.00@ 8.00
" Carnot Meteor.....	4.00@ 8.00
Carnations, ordinary.....	1.50@ 2.50
" fancy.....	3.00@ 4.00
Valley, Daffodils.....	2.00@ 3.00
Violets.....	.55@ .75
Freesia.....	1.00
Tulips.....	2.00@ 3.00
PHILADELPHIA March 2	
Roses, Beauties, per dozen.....	3.00@8.00
" Texas, firsts.....	7.00@10.00
" select.....	12.00@15.00
Carnations.....	1.50@ 3.00
Valley.....	2.00@ 4.00
Violets.....	.50@ 1.00
Narcissus.....	2.50@ 4.00
Hyacinths.....	2.00@ 3.00
Harris.....	10.00@12.00
Daffodils.....	3.00
Tulips.....	4.00

**John I. Raynor,**  
 49 WEST 28th STREET,  
 ——— NEW YORK.  
 SPECIAL EXTRA STOCK OF  
 AM. BEAUTY, METEOR,  
 BRIDESMAID, BRIDE.  
 Record Breaking Carnations  
 ALL THE YEAR ROUND.

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 Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
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**JULIUS LANG'S**  
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Careful Shipping to all parts of the country.  
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**WELCH BROS., PROPRIETORS.**  
 Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported  
 weekly; payments monthly, or oftener if required.  
 THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

**J. K. ALLEN,**  
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 BEAUTIES AND VIOLETS, SPECIALTIES.  
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**GALVIN & CO.**  
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 4 Ordway Place, BOSTON, MASS.  
 Cut Flower Consignments Solicited. Best market.

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 Cut Flowers AND Florists' Supplies  
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 Wholesale Florists JOBBERS IN  
 ALWAYS ON HAND: FLORIST'S  
 CARNATIONS, BRIDESMAIDS, BRIDES. SUPPLIES.  
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 FLORISTS' VASES.  
 Horticultural Auctioneers.  
 84 HAWLEY STREET, • BOSTON.

**JOHN YOUNG,**  
 ROSES, CARNATIONS, VALLEY  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.  
**FRANK MILLANG,**  
 CUT FLOWERS,  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 ut Flower Exchange, NE

Chicago.

BUSINESS FAIRLY GOOD.—PRICES STEADY.—HENRY FRITZ ACCIDENTALLY KILLED.—DEATH OF A. H. SAXON.

Heretofore trade has been very dull during the first week or two in Lent; although not so good last week as it was the week before, still a fairly good business was done, both local and shipping. Many florists are agreeably surprised at the way business has kept up.

Harrisii lilies are coming in more plentifully, and are somewhat cheaper. Roses are much improved in quality, and as the new crop is beginning to come in are more abundant.

Hein Bros., of Blue Island, are shipping to Vaughan, McKellar & Winterson Albertini carnations that are the equal of any pink variety in the market.

G. H. Pieser, of Kennicott Bros. Co., is back at his desk after a two weeks' sojourn in New Orleans.

Henry Fritz, who for several years was gardener to H. N. Higginbotham, was accidentally killed February 23 at Forty-seventh street and Ashland avenue; the accident was caused by a collision of a railroad train with an electric car of which he was the motorman, he having accepted a position on the electric road after leaving Mr. Higginbotham about a year ago. Mr. Fritz at the time of his death had about completed arrangements to start in the florist business this spring.

A. H. Saxon, of Downer's Grove, died February 23 of consumption after a lingering illness, leaving a wife and five children—the youngest about 3 years of age—to mourn his loss. The family have the heartfelt sympathy of his many Chicago friends in this sad bereavement. Several Chicago florists attended the funeral, which was held last Sunday. Mr. Saxon was well and favorably known to many members of the Florists' Club, he having been a regular attendant at the club meetings a few years ago, when he lived in the city and was gardener for W. H. Rand.

Fred Hill will read a paper on "How to Grow Roses for Profit" at the next meeting of the Florists' Club. J. T. A.

Asparagus Plumosus Nanus.

Strings 8 to 10 feet long, 50 CENTS.

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Yellow Rambler (Aglara), Hybrid Perpetuals, Mosses, Hardy Climbers and Madame Plantier. These plants are very strong and well shaped. Prices on application. Address: W. T. HEIKES, Manager, Care WESTERN COLD STORAGE CO., 39 North State St., CHICAGO, ILL.

GERANIUMS that will please you and prices that will suit you

H. R. CARLTON, Willoughby, O.

INDIANAPOLIS.—Fire destroyed the pottery of the Vail Seed Co. of this city, on the night of March 1, and they will not be able to make pots for some time.

Wholesale Flower Markets

Table with columns for city (Cincinnati, St. Louis, Milwaukee, Buffalo) and flower types (Roses, Carnations, etc.) with prices.

C. A. KUEHN, Wholesale Florist,

1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

MOUND CITY CUT FLOWER CO.

Wholesale Florists. CONSIGNMENTS SOLICITED. Special attention given to shipping orders. 1322 Pine St., ST. LOUIS, MO.

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2740 Olive Street, ST. LOUIS, MO. FLOWERS ...WHOLESALE...

Headquarters for the South West. When writing mention American Florist

ST. LOUIS CUT FLOWER CO.

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Advertisement for WM. F. KASTING featuring a bison illustration and text: GIVE US A TRIAL. WE CAN PLEASE YOU. ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK. 495 Washington St., Buffalo, N. Y.

Advertisement for "Rosebank" featuring a large cursive logo and text: NEAVE BUILDING, CINCINNATI. Producers and Shippers of every description of High Class Floral Supplies. CYCLAMEN PLANTS. JARDINIERE FERNS. Quotations issued weekly, forwarded on request.

Advertisement for HOLTON & HUNKEL CO. featuring text: The Wisconsin Flower Exchange. Fresh Cut Flowers, Florists' Supplies Manufacturers of WIRE DESIGNS. 457 Milwaukee St., MILWAUKEE.

Advertisement for H-L SUNDERBRUCH CO. Wholesale Commission Florists. 4th and WALNUT STS. CINCINNATI, O. SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS

Advertisement for COMPLETE LINE OF SUPPLIES WIRE WORK featuring an illustration of a hand holding a wire and text: ALWAYS ON HAND FINE STOCK CUT FLOWERS. ELLIS & POLLWORTH MILWAUKEE WIS.

Advertisement for 5,000 SMILAX... From 1 1/2 inch pots 40¢ per 100, 1 1/4 inch pots 41¢ per 100, 1 1/2 inch pots 42¢ per 100. FRED ROERNER, Cape May City, N. J.

**Carnation Notes.**

The season for good cuttings is quickly drawing to a close, and the percentage that will root decreases right along now. If the needs of next season have been figured up and the stock found short, it will be wise to get in all the cuttings that are required without delay, leaving a good margin for emergencies, as there are bound to be some rogues that will not be up to the standard when planting time comes. In the selection of cuttings at this time, one should be certain that they are ripe enough, for as the plants are making rapid growth, they form young shoots which are too sappy to root well unless allowed to become ripe.

The cutting benches will demand close watching in regard to shading and ventilation on dry days so as to keep the temperature even and cool; draughts should be avoided, and on warm days, when scarcely any fire heat is necessary, care must be exercised so as not to water the sand so freely as when firing hard to keep up the temperature. An intermediate condition of the rooting medium as to moisture suits the cuttings best.

The young plants which have been potted or boxed must not be neglected; they should be in a light airy place, and given enough artificial heat to prevent a damp atmosphere, at the same time not so much as to force the growth. A temperature of 50° at night, rising a few degrees in the daytime, with ample ventilation, is about right; and on close, warm nights a little ventilation will be found beneficial. Some growers transfer their young plants to frames, but I would not advise this course, especially in this locality, until all danger of very cold weather is past, for the covering, with consequent close atmosphere, which is necessary to keep out the cold, will cause a dampness which is detrimental to the well-being of carnations in any stage of their growth.

Young plants should be kept free from all weeds and the soil not allowed to become too dry or too wet. In the event of a scum forming, or the soil getting crusted, the surface should be loosened occasionally.

C. W. JOHNSON.

**Kennicott's Mongrel Carnation.**

Mr. Flint Kennicott in his paper on carnations from the commission man's standpoint, read at the recent convention of the American Carnation Society, stated that variegated varieties are worthless commercially, except as novelties. Mr. Fred. Dorner now retorts by naming a new variegated, Kennicott's Mongrel. Some samples displayed at Kennicott's last Saturday show this to be an excellent variety in all respects but color, the larger part of the flower being a bright red, with a segment of the Mrs. Bradt mixture.

While Mr. Kennicott will stand by the plant as a novelty, he claims it is no mongrel. The term as he understands it means half of one color and half of another, but in this case the red of the flower is largely in excess of the variegated portion.

The flowers, with samples of Mrs. Bradt, Gold Nugget and others, were good examples of Mr. Dorner's high skill as a grower.

**Greenhouse Building.**

Frazier, Pa.—T. C. Morton, range of greenhouses.

York, Pa.—I. Curtis, one greenhouse.

Milford, Mass.—A. J. Howard & Son, one greenhouse.

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English Strain, per 100... 4.00  
The English Strain of Begonias are rich in color and large in bloom.

**LILIUM SPECIOSUM RUBRUM, \$3.50 per 100**  
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Fine Nursery Stock such as Rhododendrons, Azaleas, Clematis, H. P. and Tree Roses.

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Branch of The Horticultural Co., Boskoop, Holland.

**The New Carnation, Cerise Queen.**

READ WHAT THOSE THAT ARE GROWING IT HAVE TO SAY:

MOUNT GREENWOOD, ILL.

MR. FRED BREITMEYER,

Mt. Clemens, Mich.,

DEAR SIR:—In reply to yours for our experience of Cerise Queen, will say that under our treatment the color, form and substance is all that can be desired; we have also found it a very free and continuous bloomer and have never found a bursted calyx the whole season; it is a little weak in the stem, but we lay that to the poor place in which it is growing, also we think one should be careful and not overfeed it, as it does not need it, but produces a fine flower under ordinary care.

Yours truly, C. W. JOHNSON.

H. DALE, Cut Flower Grower,  
BRAMPTON, ONTARIO.

MESSRS. J. BREITMEYER & SONS,

Mt. Clemens, Mich.,

GENTS:—The plants of Cerise Queen which you sent me last spring for trial have done well; the flower is of very pleasing color, stem medium length, 15 to 18 inches; habit of plant good. I shall plant it again next year.

Your truly, H. DALE.

DAILLEDOUZE BROS.,

FLATBUSH, BROOKLYN, N. Y.

JOHN BREITMEYER & SONS,

Mt. Clemens, Mich.,

GENTS:—We have a few plants of your No. 16, Cerise Queen, on trial; the flower is medium size, but fine color, in fact the only fault we find is its dwarf habit; we should like to grow some for side benches, as we believe it far superior to Tidal Wave for that purpose, and should make a commercial variety, but not high priced. Please give us your best price on 1000 rooted cuttings.

Very truly yours,

DAILLEDOUZE BROS.

GEO. A. RACKHAM, Wholesale Grower,  
DETROIT, MICH.

J. BREITMEYER & SONS,

Mt. Clemens, Mich.,

DEAR SIR:—In reply to yours asking as to my success with your No. 16, Cerise Queen, will say that I consider it the ideal Carnation of its type, very productive, continuous, stiff stem, of medium length, and holds its color longer on the plant than any Tidal Wave ever grown. I shall plant a house of it, if I am able to procure the stock.

Yours, GEO. A. RACKHAM.

We predict **CERISE QUEEN** is the coming Dark Pink Commercial Carnation. Orders booked and filled in rotation. Price, \$2 per doz.; \$10 per 100; \$75 per 1000. **Mayor Pingree**—the best of all yellows. Buy your stock from the Originators. Our stock is in excellent condition; \$5 per 100; \$40 per 1000, R. C.

**JOHN BREITMEYER & SONS, Cor. Gratiot and Miami Aves DETROIT, MICH.**

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It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

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Price for strong, well-rooted cuttings, per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.

**VARIETIES OF 1897**

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JUBILEE.....  
MAYOR PINGREE.....  
MRS. C. H. DUHME.....  
MORELLO.....  
VICTOR.....

Strong, rooted cuttings from flats, per doz., 75c; per 100, \$5; per 1000, \$40.00.

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DAYBREAK.....  
LIZZIE MCGOWAN.....  
MINNIE COOK.....  
WILLIAM SCOTT.....  
EMMA WOCHER.....

Transplanted plants from flats, per doz., 30c; per 100, \$2; per 1000, \$15.

CALADIUMS, Fancy Leaved, choice bulbs in named sorts, per doz., 75c; per 100 \$12.00.

**VAUGHAN'S SEED STORE,**

NEW YORK, 14 Barclay St.

84-86 Randolph St., CHICAGO

Cleveland.

No features of local horticultural affairs call for special mention at this time. Business since Lent began (at least during the first week) has been satisfactory. Socially, of course, business has suffered, but there has been a great deal of funeral work which served to keep the surplus from piling up seriously. The funeral of Robert Blu, who served a term as mayor, as well as having been a very prominent business man, used up a lot of stock. Nearly all the florists had a good deal of work for this occasion.

The regular club meeting of February 28th was devoted mostly to short discussions looking to proposed legislation regarding the control of diseases and insects troubling nursery stock, but no action was taken, as the matter did not appear to apply to stock in which florists are interested. Some carnation seedlings that have been grown by Carl Hagenburger for the past three years, were shown by him and received much attention by reason of their attractiveness in color and general excellence. The most noteworthy were a white, a light pink, much resembling Daybreak in shade and a darker pink, of a very soft, pearly tint that was peculiarly interesting. Its only defect seemed to be a slight tendency toward weakness of stem, probably caused by the unfavorable quarters occupied by the plants. Even as shown, however, the tendency was but slightly noticeable and did not seriously detract from the merits of the bloom. All the seedlings were of excellent quality and showed careful attention on the part of the grower. After the adjournment the balance of the time was spent at ten-pins.

A.

"Garden Making."

We have received through A. C. McClurg & Co., of Chicago, a copy of this new work by Prof. E. H. Bailey, the latest addition to the author's garden-craft series. There are some four hundred pages in the book, which pertains to landscape gardening and the making and equipment of vegetable, fruit and flower gardens. It is fully illustrated.

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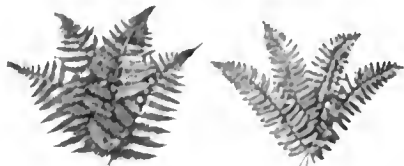
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WILL not harbor mice or vermin. Easily hauled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

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No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

Size 40x76 inches, 50 cents each.  
" 76x76 " 75 "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.  
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Made any length, 76 inches wide, at 16 cents per running foot.



No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.  
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" 76x76 " \$1.25 to \$1.50 each.

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That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.

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Canada	✿✿



**Arrangement of Benches and Piping.**

Replying to the request of "Subscriber" for information as to the best arrangement of benches and piping for the range of houses described on page 750, issue of February 12, I would suggest that for the houses for carnations and violets, solid beds be used. These should be seven feet wide and two feet high. The sides can be formed of plank or of grout, and all but eight or ten inches should be filled with broken brick, or similar material, to provide drainage. The center walk should be about two feet wide and the side walks about one and one-half. In the rose house a similar plan may be used, but the results will probably be more satisfactory if three raised beds each four feet wide are built. There will then be space for two walks of two feet each, and two along the sides of the house of one and one-half feet. In the show house and one of the others it will probably be best to have two benches along the sides of the house about three and one-half feet wide and a center bench of seven feet. In the propagating house there should be a bench along the north wall from three to three and one-half feet wide.

The writer has little choice between steam and hot water for a range of this size, but if anything would prefer hot water for heating it. In case the heater can be placed well below the level of the houses all of the pipes may be under the benches, although the circulation will be best in any case if the flow pipes are carried upon the iron posts that support the roofs, about one foot below the glass. For the rose house I would recommend three 2-inch flows and twelve 1 1/2-inch returns; for the carnation house three flows and nine returns, and for the violet house two flows and eight returns. In the show room the piping should be the same as in the rose house, or the number of returns may be increased or diminished slightly. It would, perhaps, be as well to have twelve returns in this house and to use fourteen in the remaining 20-foot house.

The main supply pipe can be carried along the end of the houses upon the south wall of the work-room and propagating house. It will require a 5-inch pipe from the boiler and this can be reduced one-half inch after the pipes for each of the houses have been taken off. Two 4-inch pipes may be used if preferred. For the bottom heat in the propagating house four or five 2-inch pipes will be required in addition to the main supply pipe.

L. R. TAFT.

LOUISIANA, Mo.—W. L. Gatewood, for many years foreman of the Stark Nurseries, died February 23, from the effects of an operation performed for appendicitis.

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CHAMPION, largest, glowing scarlet... \$5.00 each  
KLONDIKE, only large pure orange... \$2.50  
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To Messrs A. Blanc & Co.  
Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Calson, etc. Signed CII. MOLIN.  
Lyon France, Jan. 3, 1898.

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VISITED CHICAGO:—E. M. Parmelee, president John H. Allan Seed Co.; Frank T. Emerson, Mr. Roach.

MR. H. H. HARRIES, of the Goodwin Harries Co., will make a business trip to the Pacific coast.

J. A. SALZER SEED CO., LaCrosse, Wis., claim 33% heavier sales over the corresponding period of last year.

J. L. CHILDS, Floral Park, N. Y., says the mail trade for February is 25% better than in 1897.

JAMES VICK'S SONS, Rochester, N. Y., report quite an improvement in their mail trade for the first half of February.

R. FLRICH, the well known landscape gardener, is in Omaha in connection with work on the Trans-Mississippi Exposition.

CALIFORNIA reports large shipment of onion seed to Australia—very limited rainfall renders outlook unpromising for onion seed crops.

DINGEE & CONARD COMPANY, of West Grove, Pa., report a heavy increase of mail trade sales as compared with February 1897.

W. ATLEE BURPEE & Co., Philadelphia, report that on the whole they have found the mail trade for February better than a year ago.

HENRY A. BREER, Philadelphia, reports a marked improvement in trade since the first of the year, both in mail department and locally.

IN THE WEST unseasonable snowy weather prevails, but the mail trade is reported ahead of 1897. In the north-west severe weather has hurt trade considerably.

F. BARTEDES & Co., Lawrence, Kan., say they have received about 20% more mail orders up to this date, than during the same period in '97. The good crops in Kansas and the warm weather so early has caused this; the orders are about of the same size as usual. Below is a communication from one of their customers in Idaho, it shows where a good many people get their seeds nowadays.

"We are the only people here who buy seeds. The other people get them from the government."

## Melons and Cucumbers in Adjoining Fields.

Your letter asking my views as to growing cucumbers and melons in adjoining fields is received. This, perhaps, is a subject that the seed grower will naturally wish to avoid discussing publicly, but as it is of vital importance to the market gardener, as well as to the private gardener, it should be carefully considered by the growers. The generally accepted idea has been that cucumbers and muskmelons will not mix or cross. The agricultural experiment stations have conducted experiments along this line, and I have yet to see a report where an actual cross of the kind has been produced, and yet we see reports by private individuals who claim they have produced such hybrids.

My own observation lead me to believe that they will not hybridize. If this was

possible we would have to-day a considerable line of types half melon and half cucumber, whereas we have but three types that appear to stand midway between the two fruits—Vine Peach or Vegetable Orange, the little ornamental Pomegranate, and the Snake cucumbers. Any one of these will cross readily with muskmelons, while two at least will cross with cucumbers. I am strongly of the opinion that the isolated cases we read of, where it is said that a cross has been produced between a cucumber and a melon, can be traced to a little blood appearing from one or the other of the above varieties. I do not know the correct history or origin of these varieties, but do not think they are hybrids of either cucumbers or muskmelons.

The matter of quality is different. For some six years I have watched closely to see what results, if any, would accrue from growing melons beside cucumbers. My advice now is, "Don't do it." While I question their actually mixing, yet, the delicate flavor of a melon is easily injured, and every effort should be made to retain all its spicy, aromatic qualities. Outside conditions may influence where they cannot control; cucumbers may influence quality where they cannot influence type.

J. C. ROBINSON.

## A Disclaimer from Bloomington, Ill.

In your last week's item from here, by your correspondent "Homo," I am charged with attributing to the New England contingent malice and petty jealousies. I deny the charge, and know of no reason why such a charge should be made by anyone.

ANDREW WASHBURN.

## Cut Flower Price Lists Received.

Kennicott Bros. Company, Chicago, Ill.; Bassett & Washburn, Chicago; W. A. McFadden, Cincinnati; Holton & Hunkel Co., Milwaukee; A. G. Prince & Co., Chicago.

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## BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

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WE import all kinds of Japanese Bulbs, Plants and Seed, and have our own Nurseries and Farms in Japan. We expect large shipments of Liliun auratum, L. spec. album, rubrum, Melpomene Cycas stems and Maples. Prices on application.

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H. H. BERGER & Co., 22 J Broadway, NEW YORK.  
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Horticultural Imports and Exports from Europe, China, Japan, Australia, Mexico, etc.

## NEW · GIANT · ESCHSCHOLTZIAS.

### "THE GOLDEN WEST."

50c pkt., \$8.00.  
New Giant Fancy Cosmos, six splendid varieties, separate, \$1.00; Giant Cosmos, splendid mixed, 65c oz.; Calliopsis "California Sunbeams," \$1.00. Special rates given on Cosmos in quantity; Apple Geranium, fresh, \$1 per 1000 seeds; New Large Flowering Zonale Geranium, \$2.50 oz.; Ipomaea, "Heavenly Blue," \$1.00; \$12 lb.; Laurustinus grandiflora, \$1.00; Zinnias, "New Curled and Crested," 50c oz.; \$5 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8 per 15 lbs.; Senforthia elegans (Palm) 40c per 100 seeds, \$3 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

MRS. THEODOSSIA B. SHEPHERD.  
Ventura-by-the-Sea, Cal.

## SHARPE'S "STANDARD" SEEDS

Bear a Century's Reputation for Uniform Good Quality.....

Introducers of....

**SHARPE'S QUEEN PEA**  
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**SHARPE'S VICTOR POTATO**  
Earliest of all earlies and best for forcing.

CHARLES SHARPE & CO., Limited, are prepared to make Special Offers of their Celebrated Stocks of Farm and Garden Seeds.

Sharpe's "Standard" MANGOLD Seed.  
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Sharpe's "Standard" GARDEN SEEDS....

New seeds, well cleaned, carefully selected, skillfully packed in the most approved method, and delivered free to Shipping Ports.

**CHARLES SHARPE & CO., Limited,**  
Seed Growers and Merchants (for Export),  
SLEAFORD, ENGLAND.

The Michigan Nursery Law.

I have learned that some of the transportation companies, and especially the express companies, have placed a wrong construction upon the recently enacted Michigan nursery law and have refused to receive for shipment greenhouse plants and cut flowers that are not accompanied by a certificate of inspection.

It will be observed that this construction of the law places greenhouse plants entirely outside its restrictions, and it is hoped that the express companies will at once modify their instructions.

The originators of the bill are much surprised at the action taken by the express companies, as a careful reading of the bill would have shown that it places no restrictions upon their receiving and shipping of plants of any kind, the only requirement being that, if they handled "trees, shrubs, etc., commonly known as nursery stock," that were not accompanied by a proper certificate, they should inform the state inspector, giving the names of the consignor and consignee.

L. R. TAFT. Agricultural College, Mich.

OFFICIAL INTERPRETATION OF THE LAW.

As there seems to be some misunderstanding regarding Act 137, Michigan

laws of 1897, known as the San Jose scale law, in relation to the shipment of plants from without the state, the construction placed upon it by the undersigned, in whose hands the enforcement of the law has been placed by the State Board of Agriculture, is hereby given:

The intention of the framers of the law was that it should apply only to nursery stock, and except in one section the operation is expressly limited; although the section of the law relating to the duties of transportation companies does not contain the limiting phrase, we shall consider that the receiving and delivering of such greenhouse plants and cut flowers by transportation companies in no way affected by this law.

In the enforcement of the law we shall not regard the shipment of greenhouse plants and cut flowers by transportation companies as coming within the operation of the law, and will only hold them responsible for failing to carry out the provisions of the law relating to the shipment of "trees, shrubs and plants, commonly known as nursery stock."

I. H. BUTTERFIELD, Sec'y State Board of Agriculture.

D. W. TRINE, State Inspector of Nurseries and Orchards.

The undersigned hereby certify to the above intention of the law, and approve of the foregoing construction:

C. J. MONROE, Member and Vice-Pres. of the State Board of Agriculture.

CHAS. W. GARFIELD, Member of the State Board of Agriculture.

R. D. GRAHAM, Member of Michigan Legislature of 1897, introducer of the Michigan nursery law, and member of the legislative committee of the State Horticultural Society.

ROLAND MORRILL, President of the State Horticultural Society and chairman of the legislative committee of the same.

Dreer's Offer OF Herbaceous Plants.

Table listing various herbaceous plants and their prices per 100. Includes Anthericum Lillastrum, Liliago, Achilles, Adonis vernalis, Anemone Japonica, Asters, Bofonia Asterolides, Boconia, Csiha Palustris, Casia Maritima, Campanula Alliarifolia, Carex, Chrysanthemum, Coreopsis, Dianthus, Eupatorium, Funkia, Gypsophila, Gallardia, Hibiscus, Helianthus, Heuchera, Hemerocallis, Helleborus, Hypericum, Iris, Lychnis, Lobelia, Lysimachia, Lythrum, Monarda, Enothera, Pardonius, Pinks, Platycodon, Paeonia, Phlox, Primula, Pentstemon, Sedum, Spiraea, Ranunculus, Rudbeckia, Statice, Symplocos, and Violas.

FLOWER SEEDS FOR PRESENT SOWING

See our "BOOK FOR FLORISTS." Write for copy if not received.

VAUGHAN'S SEED STORE

14 Barclay St., NEW YORK.

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Seed Stores and Flower Stores

Can profitably handle our Packages of Plant Food. Attractive, take little shelf room. Valuable booklet free. Good profits.

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Contract Growers of

Peas AND Beans

and General

JOBBERS IN SEEDS.

Cape Vincent, N. Y.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA.

Ever Blooming Climbing Roses.

ED. AM. FLORIST:—Do you know of a hardy actual ever-blooming climbing rose? Reading, Pa. J. S. BENNER.

It seems to me that the terms "hardy" and "ever-blooming" when coupled together and applied to the rose, are misnomers, and can be accepted only in a relative sense. It is true that varieties of roses are catalogued and spoken of generally as "ever-blooming," but I think a term which would very much better describe this class would be "continuous bloomer." We have these in many of the teas, and still more among the hybrid teas, such as Kaiserin, Testout, Carnot, etc., and in this class we have the nearest approach to a "continuous blooming" "positively hardy" rose; still none of them are hardy in the strictest sense under all conditions and in all sections of the country. I do not know of one solitary climbing rose which blooms continuously through the summer that could be considered hardy in the latitude of Reading, Pa.; if there is such an one in existence perhaps some of the readers of the FLORIST will be kind enough to name it.

ROBT. SIMPSON.

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have forced us to the front and today we are the largest manufacturers of...

IRON RESERVOIR VASES

and Lawn Seetees in America... A 40-page catalogue for the asking

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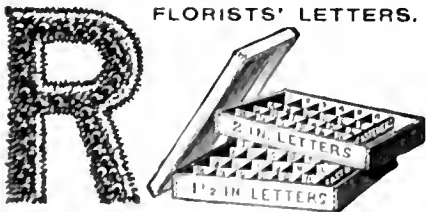
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New York.

Boston Florist Letter Co.

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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters 1 1/2 of 2 inch size per 100 \$2.00  
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Each by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Treas. and Manager,  
84 Hawley St., BOSTON, MASS.

<b>PURE BONE FLOUR.</b>	Ammonia..... 14 624
Ammonia..... 45	Bone Phosphate. 4.646
Bone Phosphate..... 60	<b>PURE DRIED BLOOD.</b>
Send for prices and references.	
<b>GEO. S. BARTLETT,</b>	SUCCESSOR TO
CINCINNATI, O.	Cin'U Desiccating Co.
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Being located at the head center of this country for White Pine Lumber we are able to buy our stock right and furnish our customers with goods of the best quality and at prices which will put them at your station lower than the lowest. Our factory is thoroughly equipped and turning out promptly the most uniform, smooth and best painted goods made in this country, put up in neat packages, guaranteed full count and nicely crated.

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Folding Boxes and Wax Paper

The Aull Bros. Paper & Box Co.

DAYTON, OHIO.

Doves...

The largest and finest stock of white doves on earth. Write for prices.



S. J. RUSSELL, 203 Summit Ave., JERSEY CITY, N. J.

See that my signature is stamped on every dove.

**MAIL** For Insurance against damage by hail, Address

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

**THE NATIONAL Florists Board of Trade**

C. S. LODER, Sec'y, 271 Broadway, New York.



Roses Grafted on Manetti Stock.

On page 763 of the February 12 number of the AMERICAN FLORIST, I notice an article on "Roses grafted on Manetti stock versus own root stock." As Mr. May has given his experience, I think it only right that I should give mine.

For several years past, I have been in the habit of importing budded and grafted roses on the Manetti. I have not offered these for sale, but kept them for stock purposes only, to change the stock of my plants where they were weak, and also to renew the stock. I noticed that these plants when they became established in the beds, were much stronger and produced apparently more bloom than the own root stock, and at that time I was a firm believer in own root stock for all purposes. Three years ago I imported some winter forcing roses, dormant eyes, from the same source, and found that they would not stand the journey satisfactorily. I then determined to import the stock and graft my own. Last year was the first regular planting that I made of Bride, Bride-maid, Kaiserin, American Beauty and a few Souvenir du President Carnot. While I knew that the best results from grafted roses are obtained from solid beds, I had no solid beds to plant the roses in, and I planted them on benches along with the balance of my stock. During the months of August, September, October and November, the Kaiserins were very much stronger grafted on Manetti than on own roots, producing over double the quantity of bloom, and having much stronger stems. American Beauty made canes seven feet high by the first of September, to five feet canes on their own roots, while Brides and Brides-

maids were very much stronger than own root plants. As we do not grow our stock for cut flowers, but merely for wood to supply florists with young plants, we cannot make a comparative trial as regards bloom, but our experience has been that they are uniformly better for winter forcing than own root plants. Some of the prominent growers who grow them for cut flowers have been exceptionally successful. While we are very firm believers in the future usefulness of this class of plants, we would advise every one planting them for the first time to order fifty or 100 plants of each, in comparison with own root plants even on the benches; care, however, should be taken to plant roses that have been properly grafted upon good stocks.

For three years I have been watching closely and carefully winter forcing roses grafted on Manetti stock, and I can state without a moment's hesitation that they produce more bloom and of better quality than roses on their own roots. I also know that several of the leading florists in Philadelphia will agree with me.

ALEXANDER B. SCOTT.

Rooted Carnation Cuttings, Pure, Healthy, No Rust. per 100, \$1.00  
Daybreak..... " 1.00  
Alaska..... " 1.00  
Lizzie McGowan..... " 1.00  
Albertini..... " 1.50  
Jubilee..... " 1.50  
Delta Fox..... " 1.50  
Ivory..... " 1.50  
Triumph..... " 1.50  
Well packed and delivered at American Express Office. Cash with order.  
LE MARS GREENHOUSES,  
W. F. Will, Manager. Le Mars, Iowa.

CARNATIONS

FROM SAND OR SOIL

DAYBREAK..... \$1.25 per 100; \$10.00 per 1000  
TIDAL WAVE..... 1.25 per 100; 10.00 per 1000  
McGOWAN..... 1.00 per 100; 9.00 per 1000  
WM. SCOTT..... 75c per 100; 7.50 per 1000

CASH WITH ORDER.

LAKE GENEVA FLORAL CO., - Lake Geneva, Wis.

BAKER'S NEW CARNATIONS.

Grown and tested five years. ONEIDA—Pure pink, healthy; no rust; continuous producer; largest size bloom. RED JACKET—Bright red, fine stem and calyx; continuous cropper. \$10.00 per 100. Orders booked now to be filled in rotation as fast as rooted.  
C. F. BAKER, Utica, N. Y.

Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

FIREFLY

A RUST PROOF CARNATION FOR BUSINESS.

Bright scarlet and POSITIVELY RUST PROOF. As productive as Scott. Rooted Cuttings Feb. 15th. \$10 per 100, \$75 per 1000. Send for descriptive list of Firefly and fifteen other novelties of '98, fifteen varieties of '97 and older standard sorts.

GEO. MANCOCK & SON. - GRAND HAVEN, MICH.

\$100 REWARD

will be paid for any RUST found in our Carnations. All Pure and Healthy. Throw out that old RUSTY Stock, begin anew with clean stock.

WE HAVE NICE ROOTED CUTTINGS, A NO. 1.

Table listing carnation varieties and prices: Meteor, Stuart, Goldfinch, Albertini, Bridesmaid, Uncle John, Storm King, Daybreak, Wither, Nice specimen plants, Callus, Primulas.

MCDONALD & STEELE, 109 S. Washington St., Crawfordsville, Ind.

NATHAN SMITH & SON

Wholesale Florists

Specialties. ADRIAN, MICH.

CHRYSANTHEMUMS  
CARNATIONS  
AND VIOLETS.

... CORRESPONDENCE SOLICITED ...

91 POINTS

New Carnation

ARGYLE

Wins Certificate at Chicago. Don't delay your orders and get left. . . .

Cuttings from sand, \$2.00 per doz.; \$10 per 100; \$75 per 1000.

Twenty five (\$25) dollars will be offered for the best 50 blooms at November Show held in Chicago.

STOLLERY BROS., ARGYLE PARK, Chicago, Ill.

EVELINA

Is the grandest mid-winter carnation extant. This is the unanimous opinion of all who have seen it growing and predict for it a grand future. Surpasses Wm. Scott.

R. WITTERSTAETTER, Sedamsville, O.

Stocks for Easter.

ED. AM. FLORIST:—At what stage should stocks be to flower for Easter.

W. DUNMAN.

The flower buds on stocks—some of the Matthiolas are meant, I presume—that are intended for Easter should be well forward by the time this appears in your columns. They are easier controlled if forward than if late, for this class of plant will not stand much heavy forcing. If the buds show well above the foliage at this time and are kept well up to the glass in a bright and airy greenhouse, and in a night temperature of from 52° to 56°, they should be in good shape for Easter.

L. E.

Forcing Steam Through the Soil.

J. A. D., Cincinnati, O., writes: "I remember seeing somewhere a description of an arrangement for cooking soil in which no steam was returned to the boiler, but it was all forced through the soil. What is the objection to this? Has Mr. May noticed any bad effects on the soil by steaming?"

There is no objection to forcing all the steam through the soil except that it would take a continuous supply of fresh water to furnish the steam, and a good deal more fuel to supply the given amount of steam necessary; other than this, which is a considerable item of expense, I know of no objection whatever.

J. N. MAY.

THE BEST OF THE NEW  
PINK  
CARNATIONS

**Mrs. Frances Joost.**

A WINNER EVERYWHERE.

\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000 Cash with order.

C. BESOLD, Mineola, L. I., N. Y.

Experiences  
... WITH ...

**CARNATIONS**

The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants.

I Guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.

ALBERT M. HERR,  
..... LANCASTER, PA.

**Carnations  
Chrysanthemums**

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

**NEW GARNATION**

**"Mrs. S.A. Northway"**

*A soft shell pink, developing to nearly pure white.*

**OUR MASTERPIECE.**

We shall commence shipping soon.

Orders booked **now** and filled in **rotation**. . . .

PRICE: PER 100. \$10.00. \*  
PER 1000, \$75.00.

**Newer Geraniums.**

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2 1/4-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.

**GENERAL LIST OF GERANIUMS.**

A superb stock in quality and variety of all the finest sorts, from 2 1/2-in. pots, named. \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.

**Fuchsias.**

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.

OUR PRICE LIST now ready, contains prices on many other plants. SEND FOR IT.

**W. P. SIMMONS & CO., Geneva, Ohio.**

W. P. SIMMONS & CO.

Make the following statement to the readers of the American Florist.

- As originators and introducers of
- "Silver Spray,"
- "Tidal Wave,"
- "Daybreak,"
- and "Rose Queen,"

each of which has, we believe, proven even better than we claimed for them. We NOW say for 1898 that

"Mrs. S. A. Northway"

possesses all the good points that go to make up a first-class and profitable cut flower sort, and that we introduce it with even more confidence than we did the others.

- It is an extra strong grower.
- It is free from rust or disease.
- It is a profuse bloomer.
- It has exceedingly strong stiff stems.
- It is of exquisite form full and double.
- The flower is high built, petals serrated.
- The calyx does not burst.
- It is delightfully fragrant (a quality lacking in many new ones.)

PRICE LIST of rooted cuttings of New Carnation

**GENESEE**

NOW READY.

1 dozen or up, prepaid by mail or express.....	\$ 1 35
25 or up (to 100) " " .....	10 00 per 100
100 " purchaser paying charges.....	8 00 per 100
250 " " " " .....	7 00 per 100
500 " " " " .....	6 75 per 100
1,000 " " " " .....	65 00 per 1000

Descriptive illustrated and priced circular free.

DAN'L B. LONG, Sales Agent, Buffalo, N. Y.

**SOUTH PARK FLORAL CO., New Castle, Ind.**

AT THE MEETING OF

**American Carnation Society**

WE GOT FIRST PRIZES ON . . . . NOT SO NEW

ALBERTINI  
HELEN KELLER  
AND ALASKA

as some, but the flowers were so fine they attracted a great deal of attention. We have very fine rooted cuttings of the above for sale. Write for prices on them and other varieties.

The Omaha Exposition.

The building in which the horticultural display is to be made is well under way and all of the other buildings are practically completed.

About a dozen of the Trans-Mississippi and other states have already decided to participate in the horticultural exhibit and from the present outlook it will be better and larger than anything that has ever been held in this territory.

About a dozen of the very strongest firms in the United States have agreed to assist in the supplying of plants for the decorating of lawns, and probably no other exposition of similar size has ever been so well equipped in that regard as this one. F. W. TAYLOR.

MARINETTE, WIS.—Geo. Vatter, the well-known florist, has purchased the old Eggner property on State street, and will erect large greenhouses there. The main building will be 20x140 feet with two smaller ones on each side, parallel with it, 20x80 feet.

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

CHAS. CHADWICK,

Lock Box 11. GRAND RAPIDS, MICH.

New CARNATIONS.

WHITE CLOUD—White. GOLD NUGGET—Yellow. NEW YORK (Ward)—Bright cerise pink. MRS. JAMES DEAN (Ward)—Clear silvery pink. JOHN YOUNG (Ward)—White. BON TON (Ward)—Scarlet. Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Wittestaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons).

All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

MRS. C. H. PEIRCE—Yellow. 45c each, \$4.50 per doz., \$25.00 per 100. SNOW QUEEN—White. 50c each, \$5.00 per doz., \$35.00 per 100. MERRY CHRISTMAS—Late White. 35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898

F. DORNER & SONS CO. LAFAYETTE, IND.

NEW CARNATION....

The largest variety of carnations... Empress

Send for price list of above. New and Standard Sorts....

WM. SWAYNE, Box 226, Kennett Square, Pa.

ROOTED CARNATIONS Choicest Stock....

Mrs. James Dean, 1 1/2 doz. Wm. Scott, \$1.00 per 100, \$10.00 per 1000. Lizzie McGowan, 2 doz., \$2.00 per 100.

ROSES, from Bench or Pots.

Send for price list of above. Write for samples and prices. W. H. GULLETT & SONS, Lincoln, Ill.

Thos. T. Galvin FLORIST, Successor to GAINES BROTHERS, 124 TREMONT ST., OPP. PARK ST. CHURCH Boston, Sept 28, 1898

Jos Tailby & Sons Wellesley Mass Gentlemen

We have handled the Wellesley carnation for the past six months and can truly say it is the best scarlet carnation in the market. We find it very salable, as our flower reports verify. We recommend it to all florists as a leader.

Very truly yours

Thos T Galvin

“WELLESLEY”

Scored 90 points at the recent Boston Exhibition.

THE GREAT SCARLET

RECOGNIZED AS THE BEST ALL-ROUND CARNATION OF ITS COLOR YET PRODUCED.

Rooted Cuttings

\$2.00 per dozen \$10.00 per hundred \$75.00 per thousand

Cash with order or satisfactory reference.

J. TAILBY & SON, Wellesley, Mass.

SPECIALTIES

IN BEST VARIETIES. ROSES, from 3-inch pots. CARNATIONS, for fall delivery. CHRYSANTHEMUMS. SMILAX. VIOLETS. Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

50,000 Flat-Grown CARNATIONS

Table with columns: Variety, Price per 100, Price per 1000. Includes Daybreak, Scott, Rose Queen, Floral Wave, Portia, Bob (by new), Jubilee, Snow Queen, Silver Spray, L. McGowan, Eldorado, Meteor, Flora Hill, Triumph, Arranzindy, Plate, new, and Uncle Sam, new, both varieties.

Cash with order. HENRY A. NIEMEYER, Erie, Pa.

MARCH OFFER.

Table with columns: Variety, Price per 100. Includes Alternanthera, Yellow, English Ivy, Begonias, Oxalis Floribunda, Ceraniums, Pansy Plants.

JOS. H. CUNNINGHAM, Delaware, O.

30,000 TRANSPLANTED CARNATIONS

STRONG HEALTHY PLANTS. Daybreak, Sc. U. Rose Queen, H. Keller, Harrison's White, \$1.25 per 100 or \$15.00 per 1000; Thomas Cartledge, Lizzie McGowan, \$1.25 per 100, \$10.00 per 1000. CHRYSANTHEMUMS, 2 1/2-inch pots, Major Bonifant, \$2.00 per 100 or \$15.00 per 1000; President Smith, Eda Cross, \$2.00 per 100 or \$15.00 per 1000. VIOLETS, Marie Louise, 75c per 100 or \$5 per 1000. GERANIUMS, mixed varieties, good strong plants 3 1/2 in. pots, showing flowers, \$3.00 per 100 or \$20.00 per 1000. 2 1/2 in. pots, \$2.00 per 100 or \$15.00 per 1000.

Cash with order or satisfactory reference. PAXTON GREENHOUSES, C. E. Taube, Prop. Harrisburg, Pa.





Buffalo.

As usual we are getting the "reflex action" of the carnation meeting. The boys who were fortunate enough to attend are full of the subject, and they talk glibly of the new varieties. The stay-at-homes have been putting in some pretty good work, too, and between them, the prices are dropping.

Mr. Wm. McMillan, late superintendent of parks in this city, leaves this week for New Jersey to take charge of the Essex county parks. His friends gave him a farewell dinner at the "Genesee" on Friday night.

The contract for the conservatories at the Botanic Garden has been signed and goes to Wurtz & Co. of this city. It is rumored that Hitchings & Co., of New York, are interested in the contract. I understand that the contract calls for the completion of the range, with the exception of four medium sized houses, by August 1, 1898. If this is done there will be some of the tallest hustling on record.

More rumors of changes of location among the flower stores. This time it is Kebstock who is reported to have acquired a new store on the east side of Main street, not far from his present stand.

The following bill received here from a New York Custom House broker may be of interest to intending importers and will show how the government gets its war fund:

Bulbs.....	\$1.00
Duty 25%.....	.25
Drayage.....	.25
Appraisers storage.....	.31
Freight and foreign charges	1.59
Custom house entry.....	1.00
Total charges.....	\$3.40
	C.

Cincinnati.

The first week of Lent has been usually noted as a quiet one, but the demand of last week has been good all along the line. Roses and carnations incline to better crops. Tulips, although quite abundant, have held up in prices better than in previous years. Violets are plentiful. Market last Saturday was exceptionally dull for this time of the year, owing to disagreeable weather. At this writing, March 1, we are having a heavy fall of damp snow.

The regular monthly meeting of the Cincinnati Florists' Society will be held March 12. This will be a special carnation meeting, and all those having carnations to exhibit are requested to send them to the H. L. Sunderbruch Co., Fourth and Walnut streets, in care of Rich. Witterstaetter, who will see that they are staged correctly.

"Wow! Bang! Bill! Blim!" and the life of Will Pleiter was in danger with the last explosion. It all came about something like this. Will has been bothered of late with earache. After arriving at the Sixth street market Saturday, he proceeded at once to a neighboring drug store, and to the clerk in charge related his tale of woe. He received a small bottle of liquid of which a few drops were supposed to be necessary to relieve Will of that terrible pain. Being cold and the Market house not the proper place to undergo such treatment, he made his way over to Fisher's wine house. The gas jet he thought was the proper place to warm that precious little bottle, which was to relieve his pain within five minutes, hardly had he held it over the blaze and the above "Wow! Bang! Bill! Blim!" could be heard as the bottle exploded. Mr. Pleiter will be more careful in the future with chemicals. H. SCHWARZ.

KLONDIKE

Cold Fields at Your Door.

**COLEUS**—All kinds, all grades and all prices. Verschellii and Queen, 50c per 100; \$6.00 per 1000; 2 1/2-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 50c per 100; \$4.50 per 1000; 2 1/2-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 100; \$1.50 per 100. Double Potunias, extra fine strain for Bals, \$1.50 per 100; \$12.00 per 1000. Anthemis Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$1.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$10.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2 1/2-inch pot, \$3.00 per 100; Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2 1/2-inch pots, \$2.50 per 100; Mme Sallerol, for flats, \$1.25 per 100; \$10.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000. The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.



30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Box 382, DENVER, COLO.

PEACOCK'S PRIZE WINNING DAHLIAS

Did you know that in 1896 Peacock's Dahlias were awarded sixteen (16) first prizes at Philadelphia out of seventeen entries? And at the American Institute, Madison Square Garden, New York, the seven first prizes (all that were offered) and two special diplomas for Clifford W. Bruton and Wm. Agnew? That last year (1897) at New York, they were awarded six of the seven first prizes and **The Medal of Superiority** of the American Institute, the highest award ever given Dahlias in America? That at Philadelphia—well, we won't say anything, as they were not in competition; but, read what the Philadelphia Record of Sept. 22, 1897, says:

"Prominent above all the other exhibits is that of the Dahlia Society itself. It includes an almost perfect assortment of all the Dahlias known in this country, grown by W. P. Peacock, of Atco, N. J., but it was not in competition for prizes.

New Illustrated Descriptive Wholesale Catalogue now ready; send for it before placing order elsewhere.

W. P. PEACOCK, ATCO, N. J.

Mention American Florist.

Two Great Sports

CARNATION

CHRYSANTHEMUM

VICTOR

PENNSYLVANIA

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth. Rooted cuttings now ready. \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$35.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

"BOSS" Chrysanthemums WM. H. CHADWICK—the grandest white novelty of the season. THE YELLOW FELLOW Winner of \$100 Stearns bicycle prize. MADELINE PRATT "As pretty as her picture."

Distributed March 1st by leading firms and the grower, Grove P. Rawson, Elmira, N. Y.

Jardinieres, Pots AND Pedestals



ADAPTED TO

Florists' Use.

Artistic Shapes and Decorations.

Write us for Illustrations and Prices....

BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.

Mention American Florist.

Executive Committee Meeting of the S. A. F.

The Executive Committee of the Society of American Florists will hold a session at Washington on Tuesday, March 15. Suggestions will be in order as to matters that the society should take up for the benefit of the trade. All such communications from whatever source will be welcome and given careful consideration by the committee. Address the secretary, Wm. J. Stewart, 67 Bromfield street, Boston, Mass.

Fern Notes.

Referring to a recent article under this head, I wish Mr. Hemsley could have spent a few days with me in the northern part of Indiana on the swampy grounds of the Kankakee and Cedar Lake bottoms. The osmundas and struthiopteris in some places have complete control of territory acres and acres in extent. The Osmundas cinnamomea, gracilis and Claytoniana are colonized so positively as to exclude nearly every other plant except a few sedges and scirpus. On little hummocks there may be seen a few Black Cap raspberries and occasionally the narrow leaved viburnum. With these exceptions there is no other shading. The struthiopteris are found in the shade of very tall elms, lindens and ash, with nothing else as a shading. Where these and the osmundas grow in the greatest luxuriance the whole of the surface is covered each spring with water six inches to two feet deep probably for a month, often longer. Osmundas and struthiopteris are to be found in all stages from the earliest prothalli to the mature plants perhaps a century old. The young plants have to go through a great many vicissitudes as a matter of course. I have seen young plants occasionally as thick together as I have known Nephrodium Molle as it appears in greenhouses. I shall be pleased to send Mr. H. spores in season.

J. THORPE.

PANSIES

The Jennings Strain of Finest Mixed Pansies... Medium size, \$5 per 1000 express; 75c per 100 by mail. Seed of above, \$1 per packet; \$6 per ounce. Aster Seed, Semple's pink, \$1.50 per ounce. Large Pansies in bloom, ready March 20th. Cash with order.

E. B. JENNINGS, Southport, Conn. Lock Box 254. Grower of the Finest Pansies.

FAXON'S "WHITE HOUSE" PANSIES. The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture. In Trade Packets at \$1.00 each. M. B. FAXON, Lock Box 1528, BOSTON, MASS. Correspondence solicited.

WRITE R. & J. FARQUHAR & CO. SEEDSMEN 16 and 19 South Market Street, BOSTON FOR THE CHEAPEST AND BEST NEW CROP FLOWER SEEDS Neponset Paper Flower Pots, Pure Sheep Manure, and All Florists' Supplies. Catalogues mailed free.



Gladiolus Bulbs FOR FLORISTS.

WE HAVE THEM! WE HAVE THEM!

Columbian Medal. S. A. F. Certificate of Merit. First prizes wherever shown. Cushman's Celebrated Seedlings. A light mixture. No. 1, \$1.25 per 100; \$10.00 per 1000. No. 2, \$1.00 per 100, \$8.00 per 1000. Our No. 2 are fine bulbs, 1 1/2 in. and over.

GUSHMAN GLADIOLUS CO., - Euclid, O.

IMPORT ORDERS BOOKED NOW

and placed with our growers, for summer and fall delivery of florists'

Forcing Bulbs and Plants

in as fine and reliable a quality as will be brought to this market in the season's best growth: Lily of the Valley, Roman Hyacinth, Harrisii, Longiflorum, Candidum, Calla, Freesia, Spiraea, Paper Whites, Daffodils, Tulips, Hyacinths, etc., Bulbs.

AZALEA INDICA

Your choice from One Hundred Thousand Plants. Reserve us at least a share of your orders.

August Rölker & Sons, NEW YORK: 52 Dey Street.

...FINE... DECORATIVE PLANTS

JOHN H. LEY, Good Hope, D. C.

- Solicits early orders for following fine stock: NEPHROLEPIS, D. Furcans Each. Doz. 3 to 4 feet over, full, splendid plants 50 or more fronds (in pans) \$2.00 \$18.00 NEPHROLEPIS, D. Furcans Very large, full of fronds, 3 feet over 6-inch pots, fit for 8-inch 1.00 9.00 NEPHROLEPIS, Bostoniensis Same sizes as above 1.00 9.00 Fine for hanging baskets, fronds drooping 3 to 4 feet below 2.00 18.00 Lomaria Globba, 4-inch, very strong 1.00 Pandanus Filix, 5-inch, very strong 4.00 Nephrolepis Exaltata, 4-in., very strong 10.00 per 100 1.50 Ferns from flats, fine little plants 10.00 per 1000 100 in 10 sorts mailed as sample for \$1.25.

SEEDS LAWN GRASS \$12.00 per 100 lbs.

Finest Quality Ever Offered (Retail @ 30c. lb.) J. CHAS. McCULLOUGH, SEEDSMAN, RECLENER AND JOBBER GRASS SEEDS, North-East Corner Second & Walnut Sts., Cincinnati, O. Send for Illustrated Catalogues.

Orders Please

- All the Leading Carnations Now Ready. Per 100 Geraniums named, our selection only, 2 1/2-in. \$2.00 Salvia, Clara Bedman, 2 1/2-in. 2.00 Little Gem Feverfew, 2 1/2-in. 2.00 Coleus, 20 best ledgers, 2 1/2-in. 1.50 Lycopodium Denticulatum, 2 1/2-in. 2.00 Tradescantia Multicolor, 2 1/2-in. 2.00 Alternanthera Aurea Nana and P. Major, 2 1/2-in. 2.00

SEEDS

Mammoth Verbenas, Asters and Pansies only \$1.00 per oz.

The Morris Floral Co. MORRIS, ILL.

SPRING BULBS.

LILIUM AURATUM.

Per 100 Per 1000 7-9 inch. \$3.75 \$35.00 9-11 inch. 5.00 45.00

L. RUBRUM

(Speciosum) 7-9 inch. 4.75 40.00 9-11 inch. 6.75 60.00

LILIUM ALBUM (Speciosum) Per 100 Per 1000

7-9 inch. 6.50 55.00 9-11 inch. 7.50 65.00

BEGONIAS TUBEROUS ROOTED...

Single, separate colors 3.50 30.00 Double 9.00

TUBEROSES...

True Excelsior Pearl. "Hallock strain" First size 1.00 7.50

GLOXINIAS Per doz. 85c; per 100, \$5.00

CALADIUMS.... Fancy leaved choice bulbs, per doz. \$1.75; per 100, \$12.00

CALADIUM ESCULENTUM Cured and sound bulbs with live center shoots. Doz. \$ 40 \$2.00 5 to 7 inches in circumference \$ 65 4.50 7 to 9 " " " 1.00 6.50 9 to 12 " " " 1.00 6.50 50c per 100 less on 7 9 inch and 9-12 inch sizes if shipped from New York.

GLADIOLUS XXX Florists Mixture Per 100 \$1.75 Per 1000 \$15.00

VAUGHAN'S SEED STORE NEW YORK CHICAGO 14 Barclay St. 84-86 Randolph St.



Rochester, N. Y.

Lent has not interfered with the flower trade so far; the demand continues about as good as before with a slight lowering in prices of some stock, but not in all cases. The market is fairly well supplied with the ordinary everyday stock, while but few shipments of select and fancy flowers arrive in town and these are eagerly taken up as soon as they come in; everybody seems anxious to secure the best that is to be had. Roses are a little more plentiful, but not to excess by any means; prices have not changed. Carnations still hold their own, although larger quantities come to market. Violets sell freely and are not at all scarce, but bring no fancy prices; those of good quality can be bought at 60 to 75 cents; tulips are considerably cheaper excepting the large fancy pinks, which are not very plentiful. Double Von Sions sell in quantities, and have not seriously declined in price, though the singles are over abundant. Hyacinths do not move off as satisfactory as a week or two ago; valley is not overdone at present, but what is offered must be called A1; their scarcity has helped the treesias along.

The sales in plants have somewhat improved lately, though the demand is mostly confined to the cheaper class of stock, such as small genistas, cinerarias, the various bulbs and primroses; those fine azaleas, the well flowered lilacs, rhododendrons and metrosideros, which are offered in the stores do not move quite as promptly, but at any rate more freely

than they did in the earlier part of the month.

The first two months of the year show a gratifying increase in the bulk of retail trade over corresponding months of last

**NEW FORCING ROSE  
MRS. ROBT. GARRETT**

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

**ROSES...**

PERLES.....	} Pots 100 Pots 100		
METEORS.....		2 1/2	\$2 50 3 \$3 50
BRIDESMAID.....			
BRIDE.....			

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

year, and as prospects for the future are not altogether without encouragement, hopes are entertained in all quarters for a continuation of prosperity throughout the remainder of the season. J. B. K.

**Rooted Cuttings...**

Am. Beauties, Brides, Maids, V. Kaiserin, Perles, Belle Siebrecht, Meteors. Same in 2-in. pots ready Feb. 15th to 20th. Send 50c for samples and get prices.

**GEO. A. KUHLE, Pekin, Ill.**  
Carnation Cuttings ready Feb. 1st.

**New American Rose  
MRS. ROBERT GARRETT**

As one of the syndicate holding stock in this rose we offer first class plants, from 2 1/2-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

**AMERICAN ROSE CO.  
WASHINGTON, D. C.**

**300,000 YOUNG ROSES 300,000**

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers.

Send for prices.

**The National Plant Company, Dayton, Ohio.**

**...ROOTED ROSES CUTTINGS**

			From 2 1/2-inch Pots	
			Per 100	Per 1000
No scrub wood used. All stock thoroughly rooted and carefully packed when sent out. Send for samples...	Per 100	Per 1000		
AMERICAN BEAUTIES, Rooted Cuttings, \$2.50	\$22.00	\$4.00	\$35.00	
BRIDESMAID.....	1.50	12.50	2.25	20.00
BRIDE.....	1.50	12.50	2.25	20.00
METEOR.....	1.50	12.50	2.25	20.00
KAISERIN.....	1.50	12.50	2.25	20.00
PERLE.....	1.50	12.50	2.25	20.00

Terms cash with order or goods sent C. O. D. Plants from 2 1/2-inch pots ready March 1.

**J. A. BUDLONG, - STATION X, CHICAGO, ILL.**

**New Rose Clara Watson**

Clear flesh pink shaded with salmon at the base, one of the finest roses of recent introduction. Extra strong plants \$8.00 per 100, **PRESIDENT CARNOT.** Those who have not tried it should do so, \$6.00 per 100.

All the standard forcing kinds in A1 stock at prices as low as it is possible to produce really good stock for, **Bridesmaid, Bon Silene, Catherine Mermet, Madame Hoste, Mrs. Pierpont Morgan, Perle, Sunset, The Bride, American Beauty, Madame Caroline Testout, Meteor and Souv. de Wootton.** Also Hybrids for forcing and summer bedding.

**JOHN N. MAY, Summit, New Jersey.**

**FLORA HILL**

Bradt	\$1.00 per 100; \$10.00 per 1000.	Genesee	... \$6.00 per 100.
Evelina	...	Painted Lady	...
Empress	...	Psyche	...
Conch Shell	...	Wellesley	...
Jubilee	...	Victor	...
Pinkree	...	Niven	...
...	...	E. Foster	...
...	...	McBorwey	...
...	...	Armazindy	...
...	...	Meteor	...
...	...	Bridesmaid	...
...	...	McGowan	...
...	...	...	...

**NEW ROSE MRS. ROBT. GARRETT...**  
\$1.50 per doz.; \$25.00 per 100.

**250 BOXES 16x24 CLASS FOR SALE.**

One of a Hundred Similar Letters:

120 South St.  
PROVIDENCE, R. I., Feb. 7, '98

H. F. LITTLEFIELD

Dear Sir: I must admit the Flora Hill cuttings were the best I ever had from anyone; all well-rooted tips. If we could get such stock from everyone it would be a pleasure to try new ones.

Yours truly, JOHN MACRAE

**H. F. LITTLEFIELD,  
WORCESTER, MASS.**

Mention American Florist

**REINBERG BROS.**

WHOLESALE

**Growers of Cut Flowers.**

500,000 FEET OF GLASS. We can fill all orders on short notice with all leading varieties of Roses and Carnations. We ARE Headquarters for Fine AMERICAN BEAUTIES. Give us a trial and convince yourself.....

**FINE ROSE PLANTS**

From 2 1/2 Inch Pots.

Ready for Shipment March 1st.

	Per 100	Per 1000
METEOR	\$3.00	\$25.00
PERLE	3.00	25.00
BRIDE	2.50	22.50
BRIDESMAID	2.50	22.50
L.A. FRANCE	2.50	22.50
KAISERIN	2.50	22.50
BELLE SIEBRECHT	2.50	22.50

**REINBERG BROS., 51 Wabash Ave., CHICAGO.**

**ROOTED CUTTINGS.**

CARNATIONS.

William Scott	.....	
Nancy Hanke	.....	
Tidal Wave	.....	\$1.00 per 100.
Portia	.....	\$7.50 per 1000
Lizzie McCowan	.....	
Kohinoor	.....	
Mrs. Thompson	.....	

Daybreak	.....	
Emma Wocher	.....	
Meteor	.....	\$1.50 per 100.
Goldfinch	.....	\$12.50 per 1000
Lizzie Gilbert	.....	
Harrison's White	.....	
Bridesmaid	.....	

Niven .... \$3.00 per 100; \$25.00 per 1000.  
Jubilee ...\$2.00 per 100; \$15.00 per 1000.  
Flora Hill...\$4.00 per 100; \$35.00 per 1000.  
No order for less than 100 of one variety accepted.

Catalogues Received.

J. H. Hale, South Glastonbury, Conn., fruits; Geo. A. Sweet Nursery Co., Dansville, N. Y., fruits; Barteldes & Co., Denver, Colo., seeds; Winthrop Gardens, Holliston, Mass., trees, shrubs and fruits; J. E. Wilson, Chitwood, Oregon, trees and shrubs; Wm. C. Babcock, Bridgman, Mich., fruits and plants; A. Lingham, Dungeness, Washington, seeds; John R. Childers, South Carrollton, Ky., fruits; Maud M. Briggs, El Paso, Texas, cacti; C. Jagd, Valley City, N. D., trees, shrubs and fruits; H. R. Cotta, Freeport Ill., fruits; McGeehon Nursery, Atlantic, Iowa, fruits; S. J. Baldwin, Seneca, Kan., trees, shrubs and fruits; J. M. Russell & Co., Wymore, Neb., fruits; Evergreen Nursery Co., Evergreen, Wis., trees and shrubs; F. H. Ebeling, Syracuse, N. Y., seeds; Nathan Smith & Son, Adrian, Mich., plants; W. A. Manda, South Orange, N. J., seeds and plants; A. C. Anderson, Leigh, Neb., seeds and plants; J. M. T. Wright, Portland, Ind., fruits; Michigan Wild Flower Co., Rochester, Mich., plants; W. P. Peacock, Atco, N. J., plants; J. C. Plumb & Son, Milton, Wis., trees, shrubs and fruits; M. Keppler, Queens, N. Y., seeds; Geo. Patton & Sons, Scipioville, N. Y., trees, shrubs and fruits; Horace Janney, Newton, Pa., trees, shrubs and fruits; S. C. DeCout, Moorestown, N. J., fruits; C. G. Nanz, Owensboro, Ky., plants; R. Johnston, Shortsville, N. Y., fruits; A. N. Jones, Newark, N. Y., seeds; Charles Black, Hightstown, N. J., fruits; H. Schroeder, Bloomington, Ill., fruits; E. Y. Teas, Irvington, Ind., trees, shrubs and fruits; B. J. Wakeman, Chebanse, Ill., trees, shrubs and fruits; John W. Hall, Marion Station, Md., fruits; Frost & Co., Rochester, N. Y., trees and shrubs; Fred W. Kelsey, New York, trees, shrubs and fruits; Alton M. Shepherd, Minneapolis, Minn., fruits; Geo. A. Schultz, Jamesburg, N. J., fruits; G. R. Gause, & Co., Richmond, Ind., plants; Theo. Koss, Milwaukee, Wis., seeds; T. S. Hubbard Co, Fredonia, N. Y., fruits; D. Hill, Dundee, Ill., trees and shrubs; Thos. Meehan & Sons, Philadelphia, Pa., trees and shrubs; A. Ries, Carroll, Iowa, plants; H. C. Faust & Co., Philadelphia, Pa., seeds; S. C. Hall, Cherry Valley, Ill., trees, shrubs and fruits; Sunset Seed and Plant Co., San Francisco, Cal., plants; T. C. Thurlow, West Newbury, Mass., plants; H. N. Smith, South Sudbury, Mass., seeds; Harlan P. Kelsey, Boston, Mass., plants; M. Butterfield, Lee's Summit, Mo., trees, shrubs and fruits; Joseph Brown, Nashville, Tenn., plants; Elizabeth Nursery Co., Elizabeth, N. J., trees, shrubs and fruits; Charles Fremd, Rye, N. Y., trees and plants; F. H. Horsford, Charlotte, Vt., trees, shrubs and plants; Chas. B. Hornor & Son, Mount Holly, N. J., trees, shrubs and fruits; John R. & Wm. Parry, Parry, N. J., trees, shrubs and fruits; Chas. Wright, Seaford, Del., fruits; Phoenix Nursery Co., Bloomington, Ill., trees, shrubs and fruits; A. L. Mitchell, Denver, Colo., seeds; V. Lemoine, Nancy, France, plants; Vilmorin-Andrieux & Co., Paris, France, plants; Wilhelm Muhle, Temesvar, Hungary, seeds; Henry W. Gibbons, New York, N. Y., heating apparatus; Dingee & Conard Co., West Grove, Pa., plants, seeds and bulbs; Pinehurst Nurseries, Pinehurst, N. C., plants; Wood Bros., Fishkill, N. Y., plants; J. Chas. McCullough, Cincinnati, O., seeds, bulbs and plants; Geo. Hancock & Son, Grand Haven, Mich., plants; H. Weber & Sons, Oakland, Md., plants; Vick & Hill Co., Rochester, N. Y., plants; Dan'l B. Long, Buffalo, N. Y., plants; Wm. F. Kasting, Buffalo, N. Y., florists' supplies.

PRINCETON, IND.—Chas. Shannon is home again after paying a visit to Chicago, where he has been for the purpose of getting new ideas relative to the florist business.

**F. & F. NURSERIES**  
 SPRINGFIELD, N. J.  
 New Fruits and rare Ornamentals. Shade Trees. Shrubbery, Private, Specialties. 100,000 Peach at lowest prices. Catalogue free. Agents wanted.

ERICAS OUR SPECIALTY

**Ericas**

(Heather.) Save 25 per cent. Duty and Ocean Freight.

FINE BUSHY PLANTS FROM 3-INCH POTS, 1-YEAR-OLD.		Per 100
ERICA persoluta alba for growing on		\$15.00
" Fragrans, Christmas variety, two sizes		\$20.00 to \$30.00
" Wilmoreana, pink trumpet, Christmas variety		20.00
" Persoluta rosea		15.00
" 2-Year Old Fine Bushes from 5 and 6-inch Pots.		
" Persoluta alba		40.00
" rosea		40.00
ERICA WILMOREANA, FINEST FOR XMAS, 2-year-old		40.00

**ANTON SCHULTHEIS,**

Telephone Call 51 F.  
 P. O. Box 78.

...Florist, College Point, L. I.



**IT'S ENGLISH, YOU KNOW!**

Drop a postal and get a leaflet "How to Grow Begonia Semperflorens from Seed." Vernon is a shining example of this type. Sutton's, the celebrated English Seed House, offer improved selection of Semperflorens, of which the following are of great merit: **Crimson Gem, Coral Gem and Duchess of Edinburgh**; the colors are red, rose and blush. We offer liberal trade packets of American saved seed at \$1.00 each; one-half packets at 50 cents.

CASH WITH ORDER.

**A. H. LONSDALE CO.,** Station H, Phila., Pa.



Put a dollar bill in an envelope and get a 1/2 trade packet of each of the above, or if you only want to experiment we will send you a mixed packet for a quarter, silver or one cent stamps. Our tests show the vitality much better than imported seed. These Begonias are great, either for bedding or pots—always in bloom—Semperflorens means everblooming. Seed sown now will make fine plants for Spring sales.

Cash with the Order.  
 Money Order P. O.  
 Station H.

**A. H. LONSDALE CO.,**  
 Specialists, Station H, PHILADELPHIA, PA.

NEW SWEET PEA

...The

**BRIDE**

Originated by  
 M. Lynch, Menlo Park, Calif.

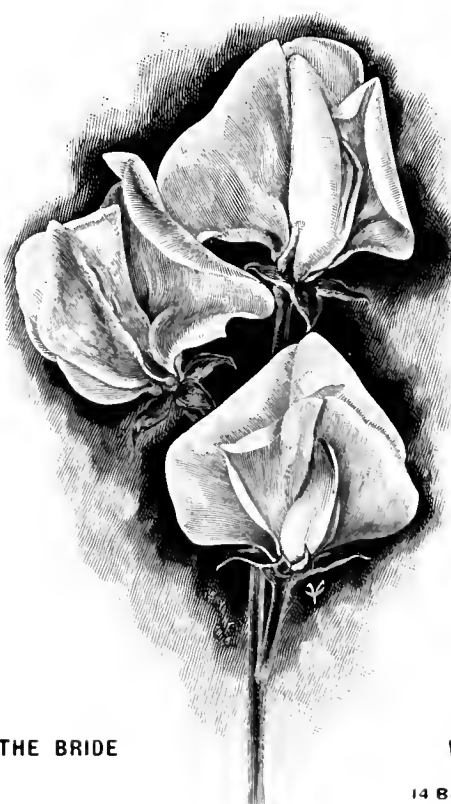
**THE BRIDE** This beautiful large, white-seeded variety is the best White Sweet Pea to date. It is a pure white selection from Mrs. Eckford and is the strongest germinator among all the white-seeded varieties—so often poor growers. Grown for the out-flower market of San Francisco in competition with the other high class whites, it has brought the highest figures over them all, taking first rank among all the whites. The flowers are pure white of fine substance, large and of true grandiflora type. Beside this every seed will grow. Perfect flowers were cut as early as April 16 last year. Price, per lb., \$2.00; 1-4 lb., 60c; oz., 20c; pk., 10c.

The Cornell Bulletin in naming the best Sweet Peas of each color, classes The Bride first as a white, with Emily Henderson second and Blanche Borpee third.

Frank Pelicano, a leading florist of San Francisco, stated: "We can sell more Bride Sweet Pea blooms than those of any other variety which we have ever handled."

Prof. Tracy, in a recent review of some of the newer Sweet Peas says: "The especial merit of this variety (The Bride) is in its length, strength and grace of flower stem, and the disposition of the blooms thereon, being one of our best sorts in these respects, and forming an exceedingly graceful bunch."

Mr. Lynch has sent us his entire stock which we offer to the trade as above



THE BRIDE

**VAUGHAN'S SEED STORE,**

14 Barclay St.,  
 NEW YORK.

84 & 86 Randolph St.,  
 CHICAGO.

San Francisco.

TRADE DULL AND PRICES DOWN.—SUCCESSFUL FLOWER SHOW.—PERSONAL MENTION.—BAD WEATHER FOR SEEDS.

Trade in this city has fallen off considerably during the past month, and as a consequence prices of nearly all classes of stuff have taken quite a drop. We have had an unusually cold, dry winter, which did much damage to all outside stuff, such as violets, etc. A little rain fell during the past week which helped the violets along considerably, but as yet the quality is not what it should be. Prices of Marie Louise and Californias are from 75 cents to \$1 per dozen bunches; Princess of Wales brings a shade higher figure and is becoming very popular. The new Giant, or Golden Gate, as it is sometimes called, seems to have fallen from grace entirely, and the demand for it is dead. Swanley White is bringing about the same figure as Marie Louise. There is practically no demand whatever for the Czar. Some of the Chinese flower growers in San Mateo county are bringing in large quantities of violets which they are willing to dispose of at any figure, and consequently the street fakirs are their largest customers.

Roses are hardly so good as they have been all winter but the prices on good stuff has held its own fairly well. Good Brides and Bridesmaid still bring \$1 per dozen, while poor stock brings about 50 cents per dozen. Some extra fine Testouts can be had, also Perles. Beauties are not plentiful and are still holding up in price.

Carnations, like violets, have also taken quite a drop in price. The quality of blooms coming into this market is not so good as that of last month, on account of so many of the flowers bursting the calyx, probably caused by the cold, miserable weather. However, Scott is still the leader and holds its price accordingly. Portias are bringing 25 cents per dozen. Some nice Armazindis have brought 50 cents per dozen. In whites Uncle John is arriving in large quantities, and selling fairly well. Flora Hill, which is the best white ever put on this market is in good demand, but being a new thing the stock of it is naturally very small. Some extra fine Mayor Pingree have been brought into the market by Gallert & Lynch. Redondo, which was thoroughly tried for winter blooming under glass, has proved a failure.

Lilium Harrisii is of very poor quality; caused by diseased bulbs. Some growers will lose their entire crop of this flower this season. Lily of the valley is selling well. There is little if any demand for bulbous stock, except for funeral work. Smilax and asparagus are scarce and bringing very good figures.

The wedding of Murray Saunders and Miss Alice Kimberlin, daughter of J. M. Kimberlin the seed grower, took place last week at the home of the bride's parents in Santa Clara.

Mr. Ben Gothard formerly with the Storrs & Harrison Co., of Painesville, O., has accepted a position with M. Lynch, at Meno Park.

Mr. Chas. C. Sawyer was in the city during the past week.

Mr. M. Davidson, superintendent of

Cypress Lawn Cemetery, was a welcome visitor last week.

Mr. Carroll Kruger, of John H. Sievers' spent several days this week visiting the different growers in this vicinity.

Mr. M. Lynch has just finished a new rose house to be devoted to American Beauties.

Mr. John Gilmour is taking a vacation.

The Flower Show which was given in Union Square during the Golden Jubilee was quite a successful affair and many creditable exhibits were made by the florists in and around this city. F. Pelicano & Co., of 343 Kearney street, were awarded first prize for the largest collection of cut flowers and decorative plants. McLellan Co., of Laurel Creek, received second prize and Chas. Abrahams third. The exhibits were all neatly and artistically arranged. Golden Gate Park had a very prettily arranged exhibit of palms and decorative plants for which they received special mention. Pelicano & Co. exhibited their two famous kentias, Belmorcana, supposed to be the two finest specimen plants in the west, each having over thirty healthy leaves. These two beautiful palms also received a special prize. Quite a number of entries were made for exhibition only and not for competition. The California State Floral Society assisted the Jubilee committee in making the show such a success.

This has been a very hard winter on the seed growers on account of the great scarcity of rains. METEOR.

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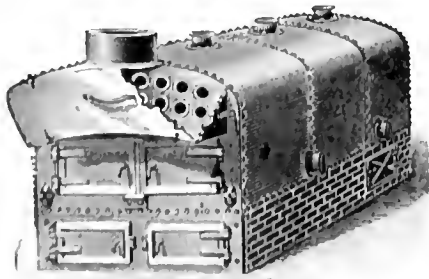
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## Baltimore.

CLUB MEETING AND CARNATION EXHIBIT.—  
EDWARD WOODFALL READS A PAPER.—  
THE QUESTION BOX; INTERESTING ANSWERS.

As the club meeting was to be a little carnation exhibit, it seemed the proper thing to take a trip to one of the places prominent in the production of that flower first, and as much praise had been circulated of Messrs. Halliday Bros' houses, that was the place selected.

Surely no one ever saw a more pleasing sight than their carnation houses. The whole place is a model of neatness and systematic work, but in carnations it would be hard to equal it, and impossible to surpass it. Other varieties which the future has in store for us no doubt will be far superior to any grown now, but the varieties grown here are grown as well as one can imagine them.

A house 29x150 feet, divided across the middle by a glass partition, was planted in Scotts at one end and McGowans at the other, every plant a picture; and the appearance, when looking across the beds, was that of a mass of buds and half open flowers, very little of the grass or leaves showing at all.

The plants were receiving a top dressing, and it is to be hoped that the proprietors will at some future time give a few notes on their eminently successful methods, including the composition of this same top dressing. Plants are all grown in benches, and temperature is kept as near fifty as possible, a little ventilation being left on at night, except in very severe weather, to keep the air sweet. All plants are loosely tied up, either by means of two U shaped wires crossed at the top and forming four stakes around each plant, or sometimes by three stakes set in a triangle, a tie or two around the outsides of stakes or wires completing the support.

The carnation meeting of the club was a marked success, whether we consider the number of members present or the spirit of good fellowship and interest that was such a feature of it.

Mr. Chas. M. Wagner had four new seedlings, two white from Silver Spray x Scott and two pink from Abundance x Scott. One of the whites a remarkably full, large, well built-up flower had the least touches of pink here and there in the petals, but was otherwise a very fine flower. The whole quartette were extra good and if vigorous and floriferous, will be hard to beat.

Messrs. Halliday Bros. showed a jar each of Lizzie McGowan, Tidal Wave, Victor, Scott, Daybreak and Albertini.

Mr. John Rider showed Daybreak, Scott and Tidal Wave

Messrs. Cook Bros. showed Alaska, Scott, Daybreak and a pink seedling slightly paler than Tidal Wave, which is much more prolific than Tidal Wave with them.

Messrs. Woodfall Bros. showed Scott, Albertini and a massive seedling, deep pink, almost red, cross between Daybreak and Portia, also a seedling like a very pale Scott with petals almost plain in outline, only very slightly crenate.

Mr. I. H. Moss departed from the ranks in showing only roses and violets. The roses were huge buds of remarkable finish, of La France, Carnot and a dark sport from La France reminding one of Duchess of Albany. The violets were Farquhar and Marie Louise and in color, stem and size were the finest possible.

Mr. Edward Woodfall read a paper on "Cross fertilization of carnations" in which after describing his own early

experiments, and explaining in detail the "modus operandi" of fertilizing from clipping the petals and stamens, and applying the pollen to saving and sowing the seeds, he advised all who had patience and courage to keep at it, for the field of improvement is still great.

The committee on judging the exhibits, Messrs. Wm. McRoberts, Robt. Graham and Wm. Gray, reported awarding the certificate of merit to Messrs. Halliday Bros. for a jar of twenty-five Scotts.

The question box had a great lot of questions in it among which were: "What is temperature for carnations?" Mr. Richmond answered 50° at night to 60° sometimes in daytime. "Best six azaleas for florist?" Mr. Seidewitz suggested Vervaneana, Van der Cruyzen, Deutsche Perle, Empress of India, Apollo, Bernard Andrea alba. "Best white winter blooming carnation?" Flora Hill was named by Mr. Fischer. "Best outside pink chrysanthemum?" Glory of Pacific. "Does Spiraea Japonica require feeding?" President Pentland thought not. "What time should carnations be propagated to bloom by Christmas?" Mr. Fischer said as soon as strong enough wood could be

had. "What time should violets be planted where they are to bloom?" Mr. C. M. Wagner said May, Mr. F. Bauer said August, Mr. Ed. Kress said make your cuttings now, put in 2-inch pots in frames, removing sash except when freezing; in May shift into threes and plunge until August, when plant. MACK.

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Omaha.

February's business was very satisfactory, much better than was expected. The demand for cut flowers on St. Valentine's Day was very heavy, everything going out clean. The quality of stock has been exceptionally good, and prices have been steady.

Since the organization of the florists' club a more neighborly feeling has sprung up, and very little cutting has been done. Arrangements for the next chrysanthemum show are about completed, also the premium list. A bowling and gun club is being talked of strongly among the members. Some of the old time bowlers, as well as the new ones, meet regularly Monday evenings and spend a couple of hours on the alley. Some promising records are made by the new men which we do not care to mention, as it might cause some of our eastern brothers and old time bowlers to be envious.

Geo. Swoboda spent a few days in Chicago last week. G. R. H.

San Jose, Cal.

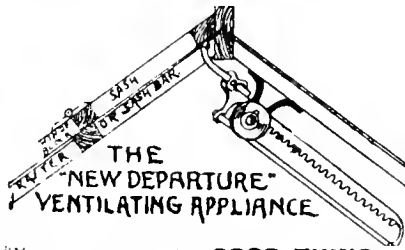
This has been a very poor month among the florists in this place. There is practically nothing doing whatever. There is plenty of stock but prices are away down. Violets are to be had in large quantities, also carnations, but as stated above, the prices are very low. Roses are a little better in price, but the call is very limited. Potted plants are selling slowly.

Mr. E. H. Bourguignon has an immense crop of cucumbers all in fine shape in his new greenhouses.

Mr. Smike Parker was in town during the week.

Mr. Chas. Navlet has just returned from Sacramento and is about to move his store there, to the principal street in the city. Mr. Navlet says business in Sacramento is very excellent and gives promise of continuing so. Mr. Gus Navlet is in charge of the store in that city.

Mr. Emil Serveau, of San Francisco, was a visitor last week. METEOR.



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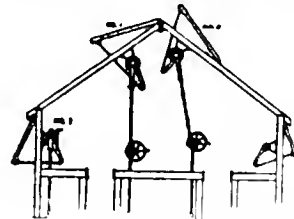
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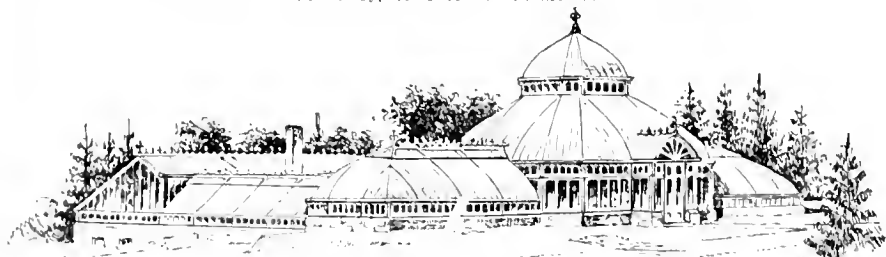
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Vol. XIII.

CHICAGO AND NEW YORK, MARCH 12, 1898.

No. 510.

## THE AMERICAN FLORIST

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THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

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Cyclamens.

The authorities tell us that all the varieties of cyclamens now in common cultivation have come from one species, *C. Persicum*. Considering the number of recognized species and the similarity that exists in them, this statement seems strange, especially when we examine the great range in form and color to be seen in any good collection. Be that as it may, it is certain that we now have several distinct strains in cultivation, and very few growers would now be satisfied with the type of *C. Persicum* common in our greenhouses twenty years ago.

Taking foliage and flower, form and habit into consideration, probably some of the white varieties, *Mont Blanc*, for instance, are the most perfect cyclamens grown at the present day. Following the white very closely come the white with crimson eye—always a good seller—the new rose colors, and the purple and magenta tints. For freedom of bloom none surpass the dark red varieties of which *Blood Red* and *Brilliant* may be taken as types. But these varieties are not up to the standard in size of flower, nor is the foliage as good as in the lighter colored forms. The color, however, is like charity, and the plants always sell well here.

Cyclamen seed can now be bought in at least fifteen distinct varieties, not including the double, fringed and crested sorts. To grow good cyclamens is not a difficult matter. There is no secret about it. One must simply do the proper thing at the proper time. Cyclamens will not stand checks very well at any stage of their existence, and must be kept growing from start to finish—a plant once stunted might as well be dumped.

It is a mistake to start with anything but fresh plump seed—the larger the better—for the larger the seed the more food there

is, and the more rapid is its germination and subsequent development. The plant from the largest seed will maintain its superiority throughout the season. All varieties do not produce seeds of the same size, there being a marked difference in this respect between different colors and strains. Get the heaviest seed possible and sow it in flats of carefully prepared soil, placing the seeds an inch apart, and covering a quarter of an inch deep. The best soil for them to germinate in is one composed of at least one-half leaf mould, and when I say leaf mould I do not mean swamp mud or Irish peat, but partly rotted leaves rubbed through a sieve with a quarter-inch mesh. Such a soil will retain moisture without becoming too wet, is not liable to get covered with fungi, and will furnish excellent conditions for the young roots. Remember that it may be three months before your seedlings will be potted off. Water carefully and do not let the seeds get dry at any time. As soon as the seeds begin to germinate place your seed pans near the glass and in an even temperature. About 65 is the proper figure, but 70 will not hurt them if they have all the light there is.

If wanted in flower for the holidays, the seed should be sown about October 1. If sown at that time they will be fit to pot off early in January; or if desired they may



be pricked off into flats. I prefer the former method, however, using 1½ or 2-inch pots. Even in these small pots we find it advantageous to use finely broken crocks for drainage. Use about the same soil as in the seed pans, except that a little bone meal may be added. Place near the glass again and maintain a temperature of from 65 to 70°. If they have been properly handled they will need no shade, in this latitude, and should be syringed several times a day on bright days.

DENVER, COLO.—The Colorado Florists' Exchange Company, which has been in existence for two years, suspended at noon March 2. Mr. Lewis who has had it in charge takes a position in a large department store.

From this time on they will need a shift about every two months, increasing the strength of the compost every time. A little bottom heat after every shift is advantageous to stimulate root action. Expose to full sun and keep the foliage cool by frequent syringings.

About the middle of May, when they should be in 3 or 3½-inch pots, place them outside on a very mild hot-bed. These frames will need no sides, but some arrangement should be made to carry shades of plant bed cloth, which will be needed at night during May, and for a few hours during the hottest summer days, and in case of heavy rain.

By August you can begin shifting into 5-inch pots and by September buds will begin to show. When the dewy nights come on the plants will grow very rapidly, and will need no cover either night or day until there is danger of frost.

Expose to the full sun as much as possible—if the foliage begins to feel hot, syringe. The sun will do them good; it will ripen up the coriis, encourage the formation of flower buds and keep the plants short and sturdy. As soon as the 5-inch pots fill with roots, shift into flowering pots and remove to a light airy house. Be very careful now that water does not accumulate on the crowns or the flower buds will "damp off." If wanted for the November shows, give them plenty of room and a temperature of 70. Before placing on the bench the plants may be dipped in a good strong solution of tobacco, one part of tobacco extract to fifty of water. By Christmas plants treated as above should be in prime condition for selling, though of course they will not show as many open flowers as they will a few weeks later, but they will be more satisfactory to the buyer if he sees that there are a plenty of buds to come.

For Easter sales the seed may be sown in February or March, as the spring sun brings the young seedlings on much faster than in the late fall.

There are other ways of growing cyclamens, ways followed by very successful growers, but we grow ours as above, and so of course think it the best.

Some growers use a great deal more shade than we do, and probably give a much higher night temperature in early fall. They get immense foliage, but, I think sacrifice flower. Neither do I think leaves five or more inches across desirable especially as these gigantic leaves are usually followed by a crop of much smaller ones, which come with the flowers and destroy the symmetry essential to a well grown specimen.

The illustrations which appear herewith will show plants which have had from 75 to 150 open blooms at one time.

J. F. COWELL.

Bureau Botanic Garden.

### Violet Culture.

My subject seems to be arousing so much genuine interest among the craft that I feel it worth while to give a few suggestions concerning it.

The culture of the violet, naturally made up of three parts, the system of soil, sun and manuring the plants, the arrangement of the benches, and that of growing the plants where they are to bloom.

As to the first, in telling how we grow our plants, I mean cuttings on the edges of the beds, and in our earthen benches, which every year we earthen and grow over by doing so we never run the risk of losing our plants, which

will sometimes happen when the cuttings are placed in sand, for under such circumstances they will have to be handled at once, when they are rooted, otherwise the new growth will be made at the expense of the vascular structure of the plants, the leaves assume a transparent yellowish color, and all after care will never remedy the harm done.

As soon in April as the ground is in proper condition for the plow, have it plowed, if it has not been done in the fall or open winter weather. Then cover it evenly with a coat of rotted manure and let it lay for a week or ten days, and the warm spring weather will soon germinate millions of seeds of troublesome weeds which are easily destroyed by a good working with a spring-tooth cultivator or harrow; at the same time mix and incorporate the manure with the soil, and the feet of the horses will firm it.

The first week in May our plants are just in the right shape and condition to be planted in the field, and we aim to do it at that time, if the weather is at all suitable. Before we go to planting we give the plot another good harrowing. This will not only put the land in a good mechanical condition, but will at the same time kill some more weeds just germinating, and form an earth mulch of two or three inches that will preserve the moisture by stopping evaporation.

We set our plants fourteen inches apart each way by marks made with a marker. This gives the plants plenty of room, and is the most convenient distance for working the plot with a wheelhoe.

As the surface of the ground will have become packed and crusted during the planting operation, thus establishing capillary motion to the air again, it is absolutely necessary, in order to preserve the moisture in the ground, that this crusted and packed surface should be broken.

To have good violets of a paying number for sale next winter requires good plants, and to raise good plants requires good culture, and the soil to be in a high state of cultivation, mechanical and in plant food. The violet plant throughout its season of growth is a gross feeder. During the summer months is the time when the foundations for its blooming capabilities are laid, and if neglected at that time no amount of care and attention during the blooming months can make up for it. The fundamental principles of culture are light, heat, air and moisture, but in my thirty-seven years of practical experience I have found out that it takes eternal vigilance in applying the same, and especially in the culture of violets, the most fastidious of all flowers. To lay down a thumb-rule for the modus operandi and expect that like results will follow in every instance, will surely lead to disappointment. I have learned that it is better to "know" a lot of things that are not so, than to think I know it all. The violets keep me guessing all the time and wondering what they are going to do next, and at their best they are a fickle lot.

But I am transgressing, I did not start out to write a romance, I intend to state facts, plain facts, as I have learned them by hard knocks, and as they appeared to my understanding.

If it is intended to make a record next winter for the largest number of flowers to the plant, keep all the runners from the plants as soon as they appear, and do not allow any summer flowers to go to seed, thereby retaining all the energy for the plants, and encourage the stooling habit, for upon the number of crowns to

the plant depends the number of flowers per plant next winter. After reading this, go into the violet house, cut a crown from the plants and count the flowers picked therefrom; it will be found that the plant has kept a record thereof that is just as reliable as the stubs in a check-book, which will tell the number of checks that have been made out. If the crown has been a good one, and is through blooming, it will be found that fifteen flowers have been picked therefrom, consequently a plant with five crowns is capable of producing seventy-five flowers, but it takes the best of culture and the best of land to grow plants with five crowns that will produce fifteen flowers each; three is the average.

As the season advances keep close watch on the plants, and do not miss the time when they should be benched, for in my experience there is only one week when it is the right time to do this work, that is sometimes as early as the middle of August, and sometimes not before the middle of September; it depends upon the season, the location and the texture of the soil.

The right time to bench violets is when the crowns are ripe and every leaf is matured, that is, when the plants seem to have stopped growing. Neglect this time to do the work and the plants will throw out a new set of runners, and the crowns will commence producing flowers in the field, all of which will be lost by having failed to do the right thing at the right time. We bench our plants in five inches of clay loam, at a distance of 8x9 inches, and we find that by this mode of culture we can grow with less work fully as many and in every way as good flowers as by growing the plants where they are to bloom.

CHAPTAQUA.

### Clematis Indivisa.

Although introduced into Europe from New Zealand fifty years ago, yet this beautiful climber is comparatively little known here, and notwithstanding it has been grown at Wellesley for over thirty years, it is only within the past few years that it has been appreciated as a decorative plant, blooming profusely at a season when flowers are scarce. Some years ago I called the attention of one of my neighbors (a florist) to it, and advised him to devote a house to it. He could not see at that time that there was any money in it; to-day, however, he thinks differently.

A northwestern aspect, I find, answers it admirably, for it thrives best in a cool house, and where the sun's rays strike it obliquely. Having purchased a strong plant grow it in a 12-inch pot, giving plenty of water during the growing season, and when autumn arrives you will find the pot well filled with roots, or the plant pot bound, so called. Having prepared your border as you would do for grape vines four feet in length, two and one-half feet in width and two feet deep, plant your clematis without disturbing the roots; give a good soaking of water and let it remain until it begins to show signs of growth, which will be early in January. Train on wire suspended eighteen inches from the glass and lay in every shoot; this is done the first year so you can have a chance to prune as you would a grape vine on the spur system in September of the succeeding year.

It is necessary to syringe thoroughly for it is rather subject to scale and mealy bug. A temperature of 10° at night is ample.

F. L. HARRIS.

Wellesley, Mass.



CLEMATIS INDIVISA.

## Paris.

Foreigners who during the last few weeks have walked along our leading thoroughfares and noticed the abundance of flowers can scarcely have believed that we were in the height of the winter, or at about the coldest time of the year. Flowers were present everywhere. Anemones and other flowering bulbs, violets, mignonette, pinks, yellow and white marguerites, open air roses, etc., were to be had in quantity.

Our florists' shops, always dressed with the most refined taste, were more than ever ablaze with the most brilliant flowers, as abundant as in spring. It can not be denied that our florists are real artists in the disposition of the flowers, in the combination and contrasting of the colors. Their floral arrangements are always very light and neat. The floral receptacles are selected with the utmost care to agree with the colors of the flowers, and this is to a large extent what makes their shops so attractive.

Peeping through the windows of some of the swell florists of our boulevards we may just now see some very fine and tasteful floral decorations. The beautiful and fantastic orchids are loosely and charmingly mounted on easels, in slender baskets, or in pieces of hollowed bamboo provided with immense handles to which the flowers, intermixed with asparagus leaves, are attached so as to leave the fastenings invisible.

Small baskets with very large tall handles adorned with ribbons matching the flowers seem to be in fashion. In some of the baskets a small *Cocos Weddeliana* surrounded by lilies of the valley, or a fine *Amaryllis vittata* (scarlet-red) with adiantums, are very effective. In others the adiantums keep company with the lily of the valley.

Azaleas are very showy by themselves and need no companion except sometimes a few ferns or some lilies of the valley finished off with the ever present big ribbon, which is usually of the same color

as the flowers. Lilies are great favorites and the proceeds of their sale in Paris is said to amount to \$160,000 a year.

But our big florists can not alone boast of taste and talent. Even our street vendors know how to give a pleasant aspect to their hand-carts in combining the vivid hues and in disposing the flowers to the best advantage in order to attract the passers-by.

Those persons who are not well posted on floriculture wonder where these flowers can come from: they seem to be too cheap to have been forced or grown under glass, and look too neat and fresh to have come from warm southern countries. And yet the latter guess is the right one. Most of the flowers sold from December to March are grown in that delightful region called the Kiviera, where the sky is always bright and the warm sun never missing.

The floral gardens of Grasse and Cannes have an area of about 60,000 acres, producing \$3,000,000 worth of flowers every year. This region, supplying during

winter the leading flower markets of Europe, is by fast train only twenty hours distant from Paris. Flowers gathered in the morning and shipped before 11 a. m. reach Paris the next day at noon as fresh as if they had just been picked, though



ACACIA DEALBATA

only wrapped in paper and packed in light reed baskets. The freight is 17 cents per basket of ten pounds. For a longer journey, as for instance that to St. Petersburg, Russia, taking three days from Paris, or four days from Nizza, the flowers (with long stems) are tightly packed in boxes on a layer of cotton and the whole box covered with a thick felt canvas, made of coarse hemp cloth and old rags, to keep off the icy air. This cover alone costs 20 cents for a box weighing eleven pounds. The city of St. Petersburg receives about four tons of flowers a year, valued at \$600,000. The price of a ten-pound box of roses and lilacs was \$11 in the Russian city in the beginning of December last.

Among the most popular floral products coming from Southern France in January and February is the *Acacia dealbata*, which, as Mr. Henry de Vilmorin said before the Royal Horticultural Society in London, is the sweetest and most graceful, the most feathery and the finest foliaged of all the winter acacias. It grows to be a large tree and develops its yellow flowers, which look like stringed beads of the finest silk, as soon as it is three or four years old. A large tree of this species all ablaze with the sunshine on its golden fleece is indeed a beautiful sight. The blooming season of *Acacia dealbata* lasts from the middle of January to the end of February. Immense quantities of it are then distributed all over Europe, and the price is maintained at a pretty high figure (about \$10 per hundred weight on the spot) owing to the limited area over which the tree will thrive very well.

Only in the Lstereis and on the Gness hills around Cannes is the proper soil for *Acacia dealbata* to be found in combination with a suitable climate. On all clayey or calcareous soils the tree sickens, turns yellow and dies off rapidly. An artificial process has been in vogue for a few years in order to anticipate the blooming season of mimosa, as this acacia is commonly called. Flowering branches are cut a week or so before they would bloom

in the open air and are submitted, with their butt ends steeped in water, to the action of moderately heated steam. The flowers expand in ten to twenty hours and last as long afterwards as if cut direct from the tree. Large tin vats are prepared for the purpose and the process is a very profitable one, as the first consignments of mimosa fetch a high price at the opening of the season.

But according to Mr. G. Vray all the flowering branches of a tree should not be treated in the above way on the same day; their selection constitutes the most important feature of the operation. When the branches are cut too soon the buds blacken and do not expand. The branches which have not been exposed to the direct influence of the sun and those growing in the center of the tree, which are somewhat weaker through lack of light, should be forced first. The branches are in suitable condition to undergo the process of forcing when, on rolling a few buds in the palm of the hand, they are easily turned to a kind of flour. Failing this, or should they resist the pressure, the forcing must be postponed to a later date.

The forcing takes place, as already intimated, either in tin vats made for the purpose, in old wine butts or in low greenhouses. In the first case the branches, set up in bunches, are placed in the vats containing four inches of water. The aperture is closed with several old blankets and a small stove put under the vat maintains the heat of the water at a temperature of 86° Fahr. This process, although very old fashioned, succeeds perfectly when the branches have been selected with care.

When old wine butts are used the budded branches, equalized at the base, are placed in them on floors having many holes, the stories being distant enough to prevent a sharp bending of the branches. The base of the wine butt is provided with an aperture which admits the heating pipe conveying the necessary steam, and the latter, passing through the holes in the floors, keeps up a temperature of 86° Fahr. The butt is covered with blankets maintained by boards, as in the above case.

When forced in low greenhouses the flowering branches are placed in flower vases, four to eight inches in diameter, filled with water, which are buried close together in the benches. The greenhouses remaining always covered, and the sun heat helping, it is very easy with a small heating apparatus to provide the required temperature. The last method is the most rational, as the work is easily done and does not require much experience. Unless in very mild, favored spots the forcing is seldom practiced before the first part of January. The flowers sold before that date are those of *A. longifolia*, which is far from being as popular as *A. dealbata*.

However, a fourth method brings the latter species in bloom in the beginning of December. This method consists in growing *A. dealbata* in tubs. Let the plants suffer moderately for lack of water from the moment the buds are well set until August, and then place them in a shady situation, supplying water freely and syringing morning and evening. Towards the end of November the plants are placed in low greenhouses heated to 86° Fahr., syringed frequently and kept well supplied with water. Eight days of this treatment affords a magnificent blossoming which lasts two or three days and permits of a close succession by replacing the worn-out plants. This latter process, the most onerous of all, can only

be employed for the first crop, which pays the best. As already stated the *A. dealbata* does not thrive on calcareous soils, but a few years ago a nurseryman succeeded in grafting it on *A. floribunda*, which is a hardier kind, growing in almost any kind of soil. *A. dealbata* is easily propagated by seeds.

At the last meeting of the National Horticultural Society Mr. Baltet, Troyes, showed a twig of a very interesting horse chestnut tree, which always unfolds its leaves several weeks before any other such tree. The young trees grown from cuttings taken from the old, show the same earliness.

In the last number of the *Revue Horticole* mention is made of a pale mauve blue Roman hyacinth which is said to bloom in the open ground forty-five days before the old white variety is much hardier, more vigorous, giving as many as twelve spikes to each bulb, and requires less heat to be forced. If only one-half of what is claimed for it is true, it will be a valuable acquisition.

The weather continues abnormally mild. At the beginning of the present month



ACACIA RETINOIDES FLORIBUNDA

wheat in the center of France was fifteen inches high. Our farmers would greet with pleasure a good frost keeping in check the weeds and insect pests, which begin to get troublesome. A hard frost, on the other hand, with the advanced state of a good many plants, would prove nothing short of a great calamity.

PARISIAN.

#### The Use of Orchids in France.

The accompanying illustration, reproduced from a photo received from our Paris correspondent, shows to what good purpose orchids may be employed in floral decorations when arranged with taste and skill. This bronze vase was one among many prepared for the celebration of the seventy-first anniversary of the birth of Baron Alphonse de Rothschild, February 1, and contained flowers of *Oncidium splendidum*, *Phalaenopsis amabilis*, *P. Schilleriana*, *Labea anceps alba* and *Cattleya Trianae*, with leaves of *Cocos Weddelliana*.

### Sub-Irrigation for Chrysanthemums.

At the recent meeting of the American Carnation Society, at Chicago, the paper of Prof. Arthur treated of sub-irrigation, or sub-watering as he called it, for carnations. We have used this method of watering various greenhouse crops for several years, and throughout the season our results agree with the claims he made for the method of applying water. Pleased as we were with the results during the winter, it was in March and April that the most marked results were obtained with the carnation. At that time a much larger amount of water was required than during the winter, and we not only found sub-irrigating the beds a great saving of labor, as compared with surface watering, but the cut of flowers, of which a careful record was kept, was twice as great from the sub-irrigated as from the surface watered plants. The two beds used for the test were thirty feet long and three and one-half feet wide.

With such a marked benefit during the early spring months, it can readily be seen that with a crop like chrysanthemums, which are grown upon greenhouse benches for four or five summer months, even greater results can be looked for. I regret that I have no comparative data to give, but for two years I have used sub-irrigation for chrysanthemums upon a bed thirty-five feet long and six feet wide with the best results, and a description of the methods employed may interest your readers. One of the objections to the general use of this method of watering, as mentioned in the paper of Prof. Arthur, was the cost of preparing the beds, but this does not hold with our construction, as we use ordinary bench lumber, and would only insist that the supports be sufficiently close to prevent the sagging of the bottom boards. We have best results by using legs and cross-bearers every six feet, upon which 2x4 stringers running lengthwise of the beds are placed. The bottom boards, which are twelve inches wide, and of a fair grade of hemlock lumber, rest upon the stringers. They are placed closely together and nailed to the stringers to prevent warping. The front and back boards are eight inches wide and are nailed to the stringers so as to form a bed five inches deep. If there are loose knots in the boards, shingles or bits of thin boards are nailed over them and laths are nailed over any large cracks, and over the ends of the boards, the boards are then wet down and given a wash of cement, prepared by mixing Louisville cement with water enough to make a paste as thick as can be applied with a broom, and scrubbing it over the bottom and sides, thus filling any small cracks and helping to preserve the boards. After a few hours the beds should be filled with soil. We generally place an inch or so of a mixture of partially decomposed cow and horse manure in the bottom and over this a compost of sods and manure. To distribute the water we use two and one-half inch drain tile, placed lengthwise the beds, one row being sufficient for four foot beds and two for those seven or eight feet wide. For houses up to fifty feet in length they can be placed level, with a slight fall in longer houses. Care should be taken to have the openings between the tiles as nearly even in size as possible. As the tiles are more or less curved, if they are arranged with the convex side up, the openings will be at the bottom, and by turning the tile slightly the size of the cracks can be adjusted. Once in twenty or thirty feet it is desirable to have openings into the tile, in order that the distribution of the water can be



A PARISIAN VASE OF ORCHIDS.

observed. In case it should be found that water was required by one part of the bed, while the remainder did not need watering, water can be turned in through these openings and confined to the dry portion by inserting bits of tin between the joints of the tile on either side.

After planting the beds we wet the soil to compact it about the plants, but after that rely upon sub-irrigation for the water supply, although we use water freely in syringing the plants on bright mornings. The amount that must be applied through the tile will soon be learned by experience, but, as a rule, we find it well to apply enough to cover the bed one-half inch deep at each watering while the plants are small, and may increase this to one inch when they are nearly grown. This is better than to apply a smaller amount at more frequent intervals. The necessity for watering can be determined by examining the condition of the soil at the bottom of the bed. Instead of using the hands as suggested by Prof. Arthur, a small tin cylinder can be used for sampling it, without disturbing the plants. While the tiles are distributing the water, the time can be occupied in stirring the soil, staking,

tying or disbudding the plants, and thus the actual labor of watering is greatly reduced. Unless the beds are very carefully built it may be stated that they will not be actually water-tight, as there will probably be a few small leaks along the sides. We find this desirable, as if a surplus of water should be given, it would escape through these openings. We use these leaks also to indicate when the water should be shut off, as when the water drips from the openings along the sides of the beds, it indicates that the soil has been fairly well moistened.

After the plants have become established, the application of liquid manure every four or five days is necessary. Whether this is a solution of chemicals in water, or is made from animal manures, it can be readily applied through the tiles and with no extra labor. Nearly every one has seen or heard of the Kinney pump, and with one of them attached to the hydrant, and with the liquid manure ready prepared in a barrel, it will take up any desired amount, mingle it with the water and distribute it through the tiles to all parts of the beds, where it can be taken up by the plants. By applying the liquid manure in this way, we do away with one of the most laborious and dis-

agreeable features of chrysanthemum growing.

Although we have used sub-irrigation for all kinds of greenhouse crops, both flowers and vegetables, in none of them have we been better satisfied with the results than with the chrysanthemum.

L. R. TAFT.



A DISEASED LILY.  
Indicating small size at date given

### The Lily Disease.

In response to the request of the editor of the AMERICAN FLORIST for an article upon the lily disease, it may be said at the outset that there are many diseases of the lilies. There is, however, a certain sense in which one may speak of the lily disease, and by it is meant the trouble that has affected the lilies, chiefly those known as Easter lilies, and that come to our markets as bulbs from the Bermudas.

While the writer has had some acquaintance with this disease for some years past, he has not made an exhaustive study of the trouble, and in this article will draw largely upon the information set forth by Mr. A. F. Woods in his recent pamphlet (*The Bermuda Lily Disease*, Bulletin 14, Division of Vegetable Physiology and Pathology, U. S. Department of Agriculture) upon this subject published about six months ago.

First as to the general appearance of the prevalent trouble Mr. Woods states that it is characterized by spotting of the leaves and flowers, and of the scales of the bulbs accompanied by a failure of the plant to thrive and to produce a full number of blooms. In short the flowers are few, small and spotted, if the plant blooms at all, and the leaves upon the short stem are streaked with brown, remain small, become twisted and turn brown.

The disease affects several species of the genus *Lilium*, but most frequently and destructively the *L. longiflorum* and *L. Harrisoni*. It is met with in Europe, and Japan lilies are likewise susceptible. The writer has seen whole houses when the bulbs were forced for Easter decorations where not a single plant among thousands was in a healthy condition, and when examined with a good magnifier a small mite could be found associated with the brown streaks upon the dwarf leaves and stems. Such worthless plants when removed from the earth, and the

scales of the bulb examined showed the same mite in great numbers between the decaying scales.

Mr. Woods has found this bulb mite to be *Rhizoglyphus echinops*, and figures it in his bulletin and states its size to be that of a mustard seed, and that it bores into the healthy tissue at the base of the bulb and almost completely destroys it.

As these depredations are below ground, and at the point of union of roots with stem, they are doubly serious; first, because of the great importance of keeping this portion of a lily plant in health; and secondly, because of the opportunity the burrows offer of fungi of various kinds effecting an entrance. Anything that opens up the interior tissue of the bulb will provide the way for decay, and the work of the mites will be followed up by bacteria and the various molds that finally end the life of the plant and bring dismay to the propagator.

A diseased plant is shown in the illustration made from a photograph of a sample taken from a greenhouse near by.

Lying back of all the different insect and fungous troubles it is claimed that the lily plants are not properly grown and handled, and that the bulbs come to our country in a weak condition that renders them more liable to fall victims to their enemies than healthy plants. Thus the Bermuda growers, according to Mr. Woods, have been in the habit of cutting the flowers with long stems and thus weakening the plants. Again, and perhaps one of the worst practices, has been the forcing of the bulbs for the Christmas trade, which forcing has induced unhealthy plants.

Carelessness is at the bottom of much of the trouble and the first requisite is healthy stock. It goes without saying that so long as the law of "like producing like" holds, it will be hopeless to expect good plants from unsound bulbs. The work should begin with the Bermuda propagators and they should be made to feel that their only hope of retaining their place as lily bulb growers rests upon the basis of sound and vigorous bulbs. They need to practice a rotation of crops, and not attempt to produce bulbs upon old land already infested with the diseases of the lily, and not send bulbs into market until they are mature.

It remains for the florist to note the condition of his bulbs as they come to him. If diseased they should be discarded and destroyed. Mr. Woods recommends the soaking of the bulbs in sulphur solution, and is also confident that much good may be done by fumigating with hydrocyanic acid gas. A liberal use of tobacco stems around the pots is likewise a wise precaution.

BYRON D. HALSIED.

### Carnations at Chicago.

[Paper read by W. P. Craig before the Philadelphia Florists' Club.]

I have been requested to make a report on what I saw of interest at the recent meeting of the American Carnation Society. This I will endeavor to do, and will also, hoping to make what I say more interesting, venture to give some suggestions and reflections along the different lines, and draw some comparisons between those varieties which may be grown with profit and the kinds which must, from their lack of good qualities, fall by the way. Let us then for sake of convenience, take up first the most important color, white, and follow on with the pinks, reds, yellows and the fancies.

Among the whites the leading claimants for our attention are Lizzie Mc-

Gowan, Flora Hill, Alba Superba, Evelina, White Cloud, Harrison's White, John Young and Genesee; there may be other valuable whites with which I am unacquainted.

Of Lizzie McGowan it may be said that it has been the most profitable white carnation for general culture of recent years; but some of the newer varieties are so decidedly superior in form, or size, or stiffness of stem or in a combination of all these qualities, that I do not hesitate to say that although McGowan when in good health is a marvelous bloomer, and that I am almost certain none of the new ones will equal it in number of flowers produced, on account of its defect of form and stem, it is so placed at great disadvantage, and many growers will drop it in favor of the newer varieties.

Evelina appears to be the best, all things considered. It is a pure white, of good size, fine form, perfect calyx, an excellent grower, free bloomer on long stiff stems; its only defect is, as I found it, a lack of fragrance.

Of Flora Hill much good has been justly said, and I cannot at this time, refrain from adding a few additional words of praise. It is a remarkably strong grower and an abundant and continuous bloomer. It is true that earlier in the season its stem lacked stiffness, but to-day, as it grows with us the stems have improved wonderfully, and are I consider quite stiff enough for any ordinary purpose; in form it is lacking a trifle, but is still in this respect much in advance of many varieties that are extensively grown. As this variety has already been widely distributed, and its value so well known, I venture to say that more of it will be brought into market next winter than of any other white.

The other notable and much talked of introduction of last year in this color, Harrison's White, has been, and still remains a grievous disappointment. It was introduced as a sport of Wm. Scott, and for that reason was largely planted; it shows, however, none of the characteristics of that popular variety; it has flowered scarcely any during this winter, and has every appearance of being of the type known as "spring blooming," which are of no value commercially for cut flowers. The carnation, to be profitable, should commence blooming in November and flower abundantly all winter and spring.

Alba Superba is a variety of decided merit, chiefly on account of its grand stiff stem which admits of its being used to advantage in bold decorative effects; it is also a healthy grower and continuous bloomer. The flowers cannot be said to be equal in size to some other varieties. I saw one plant being tested at Mr. Hill's on which was one developed flower, that was fully one-third larger in size than any other flower I ever saw of this variety.

White Cloud is a seedling from Day-break, and in growth and free blooming habits greatly resembles that well known kind; it also is a valuable sort.

John Young is a flower of good form, quite fragrant, with good stem, but inferior in size.

Genesee is a pure white on strong stems, somewhat resembling Alba Superba in form of flower. I had not an opportunity to see this variety growing in the greenhouse, but judging the habit of it from the plant on exhibition I am led to believe it very free; it is, however, as is Alba Superba, undersized.

In pink, the next color of importance to the whites, we have for our consideration



Wm. Scott, Daybreak, Albertini, Victor, Mrs. McBurney, Painted Lady, Mrs. Thos. Lawson, Mrs. James Dean, Triumph, Mrs. Frances Joost, Argyle and Cerise Queen; there are some pink varieties well known that need not be mentioned here; also some others of this color being introduced this year that were not at the Chicago exhibition, and which I have had no opportunity of seeing; this also applies to varieties I have not seen in the other colors.

Wm. Scott is the most widely known of all the pink carnations; it has been the most popular, because the most profitable during the past three years, but to-day with such varieties in the field as Victor, Triumph and possibly other kinds which, while perhaps not quite so free, have length of stem and size of flower in their favor, it is certain that the number grown next season will be greatly reduced.

In regard to Victor, Scott's foremost rival at this time, I want to say that it has much the same habit as Daybreak, of which it is a sport; but is much darker in color and stronger in growth; it is remarkably free in bloom, of large size, fine stiff stem, and it must be recognized as one of the most valuable carnations in cultivation to-day. I am inclined to accord it first place among the pinks.

Triumph is another good one of fine form, with excellent stem and color, and very free blooming qualities. It has been in commerce for several years and it is remarkable that it has not been more generally grown.

I may mention here that Mrs. Thos. Lawson is a grand new pink variety whose introduction will be awaited with much interest by all who have had an opportunity to see it.

Mrs. James Dean is much the same in color as Mr. Heacock's pink, Elizabeth, with which many of you are familiar, but seems to be inferior to the latter in strength of stem and in form. Elizabeth will be given another year's test.

Argyle is a variety of considerable merit, and is surely worthy of a trial on account of its pleasing color, vigorous growth and good stem; it is, however, somewhat deficient in form.

Painted Lady is of excellent form and a very pleasing color. As I saw it growing at Mr. Hill's it was very free in bloom, but the long stems were weak; this is probably due to some error in culture, as I saw it with much stiffer stems at his place a year ago.

Cerise Queen is much the same in color and form as Tidal Wave; its stem lacked stiffness.

Mrs. McBurney is a fit companion for Daybreak in color; it is, however, of a different form. The flower, although larger is not so full, and as I saw it growing at Mr. Rudd's in Chicago, was certainly very fine; the flowers were uniformly large on long stems, and it is a very free bloomer. By the way, Daybreak is still among the very best in some places; in others, complaint is made that it does not do so well as formerly.

Mrs. Frances Joost is another of the very promising pink carnations of this year's introduction; it is a well formed flower of a very pleasing shade on a good stem, and is said to be possessed of very free blooming qualities.

Oeida as being sent out this year is a good shade of pink, but in my judgment lacks size, stem and form.

Queen of the West and Kathleen Pantlind I do not consider improvements over existing well-known sorts; there are also a number in this color that I have had no

opportunity to see and of which I can say nothing.

In the next color, red, we have Jubilee, Portia, Bon Ton, Red Jacket, Firefly, Wellesley, America, G. H. Crane, Scarlet Queen, Dazzle and Fort Wayne.

Jubilee is a superb flower, as is now well known; the color is rich and the form fine; its stem among the very best. This variety is quite subject to rust. I have found, however, that the rust may be readily kept in check by the frequent and liberal application of air slaked lime. I use for this purpose a patent gun, which is a very useful machine.

Portia certainly produces quantity, but is not up to the size required in these latter days, when the demand for good large flowers must be met. Among the other reds I have named there are perhaps better ones than these. G. H. Crane, America and Scarlet Queen are all promising; I consider the first named most likely the best. It is a very large full flower, much fuller than Jubilee, and is possessed of good color and stem. Bon Ton is also a very handsome thing; its color is grand, and its odor sweet, but as I saw it grown was led to believe it not free enough. America and Scarlet Queen are also good things, but of these I can say very little at present.

Fort Wayne is of good form and a large flower, perhaps a trifle light in color.

Wellesley was, as I saw it, too badly used up for me to form any opinion of it except that it was weak in color and size.

Red Jacket, weak in stem and size, is of good color.

Firefly is claimed to be, by the introducers, entirely rust proof and free to bloom; its flower is in my judgment too small, and what we really want in reds is one with the productive character of Portia, only with larger flowers, in form like G. H. Crane, Bon Ton or America. My limited knowledge will not enable me to "pick the winners" in these last named.

The next in order are the yellow variegated, and under this head we must consider Buttercup, Eldorado, Mayor Pingree and Mr. Dorner's superb new variety, Gold Nugget.

Buttercup is well known and is still in some sections grown in considerable quantity.

Mayor Pingree, one of last year's introductions which I have seen growing in several places, and grown in quantity myself, is a flower of first size and has the finest stem of any carnation I know of. It cannot be expected that a variety of this type will produce as many blooms as such varieties as Flora Hill, Victor or Gold Nugget, but its extra quality will command a sufficiently larger price to make it a profitable one to grow.

Eldorado is very productive when in good health, but is very subject to rust and inferior in size to Gold Nugget, which is, on the whole, I think the best thing in sight in yellow; of this latter variety it may be said that it is of fine form, and in color several shades darker than Mayor Pingree; it is about the same color as Buttercup, but is not so heavily penciled as that variety. I did not get to see Gold Nugget growing, but some of the most careful and conservative experts who have had the opportunity pronounce its growing and blooming qualities all that can be desired.

And now for the white variegated ones. In this class we have among others Helen Keller, Mrs. Geo. M. Bradt, Lily Dean and Armazindy. Helen Keller was once a promising variety but unfortunately developed a habit of producing imperfect

flowers, which was the cause of its being largely dropped from cultivation, but it could be grown generally as I saw it exhibited by the South Park Floral Co. of Newcastle, Ind., at the Chicago meeting; it would still claim a place in the front ranks.

Mrs. Geo. M. Bradt, one of the best of last year's introductions is doing well everywhere and may be now put down as a standard sort; it is a beautiful thing, its only defect is a weakness of stem; it is possible to strengthen the stem by growing it at a temperature never exceeding 50°. This temperature is also suitable for Lily Dean, another of last year's introductions and a most beautiful variety; it is a very free bloomer, with long stems and I consider it the best white penciled variety on account of its general make up and freedom of bloom.

Armazindy is one that has been grown somewhat, but is still comparatively unknown or not generally grown; it is a finely penciled kind and has among its good qualities freedom of bloom, good stem and fine form.

Of Psyche all I can say is that it is about as heavily penciled as Helen Keller, is of better form and size and appears very free; I have also seen this variety much better than I saw it this year.

Empress is a variety with which I have been very favorably impressed; its color I would call a rich crimson, extraordinarily fine stem and from all indications should think it will, in its class, prove of much value; it must be kept in mind, however, that this is one of those varieties whose immense stems take a long time to develop, and they must bring a good price in order to pay the grower.

Maud Dean is a charming thing, deliciously fragrant, but may be dismissed from consideration as a commercial variety on account of its lateness and shyness in bloom; for the amateur who is willing to dispense with quantity for the sake of quality it is not without interest.

It has come to pass in these latter days that any grower investing his money in a new variety is unwise to do so unless that variety is superior to all existing varieties in its class. If, for instance, there are three pinks offered of the same shade of color and general quality it will be necessary to make a close study of each to determine which of the three has the most points of excellence; in the close competition which now exists the weak kinds must be dropped and the better ones given their places. The rose growers have carried out this "boiling down" process until there are practically only three varieties now largely grown, viz., Bride, Meteor and Bridesmaid, with the peerless American Beauty in a class by itself; Mue. Cusin, Wootton, Gontier, Hoste, Watteville, and many others once largely grown are now seldom seen; even Perle des Jardins, once the most popular rose of all, is now grown in a limited way.

In conclusion I will say that the exhibition in Chicago this year was an intensely interesting and encouraging one; the general opinion was that it even exceeded the very attractive one of a year ago in Cincinnati. The society is certainly doing a very good work, and as it has selected this city for its meeting place next year I bespeak for it your hearty co-operation, and hope that next year will show a large increase in its membership.

ASHTABULA, OHIO.—The M. E. Fassett greenhouse property has been re-appraised and the assignee, W. G. McCartney, has been ordered to sell it at private sale

## Up-to-Date Wholesaling.

When a retail florist in Philadelphia runs out of any of this or that kind of stock he tells his buyer to run over to "Sam's" and get it, or if a large quantity of any special flower is wanted "Sam" is seen, and the dealer feels sure of the necessary stock to fill the order.

"Sam" is short for S. S. Pennock of 1612 Ludlow street, where he conducts a wholesale cut flower commission business. Mr. Pennock's business is exclusively cut flowers, he leaving florists' supplies severely alone. His aim is to keep high grade stock, and the large and ever-increasing list of both customers and consignors bear testimony to his success. Succeeding in 1887 to the business established by his brother at 3800 Sixteenth street, he was obliged soon to move to larger quarters, which in turn became too small. In 1895 he moved to his present location, erecting a building to suit his purpose. This in turn was enlarged by an addition the past season, which gave him greatly increased facilities. His location is an ideal one, being between the two principal streets and but two blocks from the center of the city. Adams Express freight office is but half a block away. Orders by long distance 'phone have been received, packed and delivered on train in twenty minutes.

With the recent additions to his establishment his main floor space now comprises over 2200 square feet, with a cellar of same capacity beneath; the ice storage rooms or refrigerators contain 2000 cubic feet of space, and are of modern design. Over one hundred growers, representing about 700,000 feet of glass-*con-*sign their stock to him, many of them being daily shippers.

His out of town trade is rapidly increasing and extends in area from north New England to Florida, regular shipments being made to Jacksonville, which are two nights and a day en route, and arrive in good condition.

His system of handling stock gives almost perfect satisfaction, the growers of inferior flowers being the only ones to grumble. Everything received is graded, and in this way the stock is sold entirely on its merits, and each grower receives his proportion on the quantity sold. As long as there is any business doing the best flowers go first, and growers whose stock gets into the upper classes fare well, while poorer grades have sometimes to be almost given away. His grading of stock entails considerable expense, but the satisfaction to all parties concerned is worth the trouble. Mr. Pennock believes that this system has done much to improve the quality of flowers and makes growers more careful of their stock than formerly. It used to be put in a box anyhow, just so it got to town. Any old box was thought good enough, shoe box, soap box, spic box, etc., but now things are different, and much more intelligent methods are used, although there is even now plenty of room for improvement.

Carnations are still not handled as they ought to be, most growers leaving them on the plants too long, so as to get into first grades on account of their size. They should always be picked a little under size rather than full open, and would bring better returns to the grower. Thousands of carnations are handled here every day, and as many as 90,000 have been sold for a holiday. Personally Mr. Pennock, who is a young man, being still on the sunny side of thirty, is well liked by all those who come in contact with him, and when he and his twelve



STORE OF S. S. PENNOCK, PHILADELPHIA.

hustling clerks get together a wonderful amount of business can be turned out in a day. K.

## Boston.

The market is very quiet, and prices are going very low for the season, being flooded with violets and all bulbous flowers, especially lilies and callas are overstocked and unsalable at \$4. Smilax is very scarce, and the market is practically cleaned out of hardy ferns.

Last Saturday the horticultural society met, and the president was authorized to receive proposals and plans for a more desirable building and accommodations on the present site.

Manager Kennedy, of the Cut Flower Market, has resigned and there are innumerable applicants for the position.

George Mullen has closed his store on Park street.

George Sutherland is receiving a quantity of fine acacia.

A party of gentlemen from Boston visited the extensive establishment of S. J. Reuter at Westerly, R. I., on Thursday, March 10.

Visiting Boston: H. J. Goemans, representing K. J. Kuyk, Holland and Belgium.

## Birthday of W. K. Harris.

Wm. K. Harris passed the sixtieth milestone of his life last Thursday, March 10, and the event was most fittingly celebrated by the employes of his establishment presenting him as a mark of their

esteem—with a handsome oak roll-top office desk and chair. The presentation was a great surprise to Mr. Harris. Mr. George Sampson made an appropriate address, which was responded to by Mr. Harris in his characteristic way, and in such a feeling manner that all could not but see that he greatly appreciated the honor paid him. That his seventieth year will find him still at the head of his important business and the greatest commercial floral poet laureate in the country is the wish of his many friends.

Philadelphia.

## A Great European Rose Show.

A rose exhibition of an unusually extensive character will be held during the coming summer at Frankfort-on-Main, Germany. Opening early in June it will continue to September, and if the weather proves favorable the time may be extended to October.

CLIFTON, N. J.—Mr. Robert Simpson has bought the W. H. Young greenhouses at this place and will grow American Beauties principally, with a moderate number of other varieties. He will plant American Beauties on their own roots, but will grow all other varieties grafted on Manetti stock. [Mr. Simpson is well known to our readers by his many excellent articles on rose culture which have appeared in these columns.—Ed.]

FRANKFORT, KY.—E. Power, of this city, claims to have cut some violets March 4 with stems 10 inches long.

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Address THE AMERICAN FLORIST CO., Chicago.

**Special Easter Number.**

The issue of the AMERICAN FLORIST for April 2 will be the annual Easter or spring number, and will be sent to all the new names obtained for the 1898 Directory. Advertisers will see the value of this at once, as it will give them an opportunity of placing their stock before a large number of new florist buyers whose names are on no other lists. Copy for advertisements should be sent in at once. We can give much better setting and display when ample time is given than when copy reaches the office late.

MR. D. B. LONG, of Buffalo, is certainly an artist in the advertising line. His circular of the Genesee carnation is unique in style, and the most completely illustrated thing of the kind which has been seen recently. The floral monogram on his catalogue of rooted cuttings just received is very neat in design and execution.

**New York.**

FLOWER RECEIPTS HEAVY AND PRICES TENDING RAPIDLY DOWNWARD.—SUCCESSFUL MEETING OF THE MARKET FLORISTS' ASSOCIATION.—EASTER PLANTS ALREADY ABUNDANT.—WHITE FLOWERS LEADING.—FRITZ DRESSSEL'S GOOD FORTUNE.—LECTURE BY PROF. J. B. SMITH FOR MARCH 15.—AMERICAN INSTITUTE MEETING.

The receipts of flowers are very heavy this week, owing to the favorable weather, and the unavoidable demolishing of prices is in progress. The great bulk of the flowers in some lines goes now to the Greeks, who have fairly swarmed about the wholesale districts since spring weather set in, and these chaps are adepts in the science of price breaking. Every day now sees a further drop, and this is likely to be the story without material variation until Easter. The usual protests from the growers are coming in from all sides, but there is no possible remedy. The better class of retailers pay fair rates for a little selected stock, but this advantage is swallowed up in the "jump" prices at which the greater part of the flowers must be disposed of.

On Tuesday evening, March 1, the usual monthly meeting of the New York Market Florists' Association was held. John Birnie presided with his usual ability and much enthusiasm was developed, a goodly number of new members being admitted and fifteen or sixteen additional stands engaged. An interesting report was made by Messrs. O'Mara and Steinhoff on the hearing before the New Jersey legislature in reference to the exemption of florists' stock from the terms of the bill relative to insect pests. A special meeting for the allotment of stands will be held on March 15, and it is expected that the market will be open for business about March 26.

The retailers' windows are bright with azaleas, lilies, genistas and boxes of hyacinths, and a very decided Easter appearance is noted. The effect of this on Easter business is a question. The element of novelty being eliminated from the Easter offerings, is it not possible that Easter trade may suffer? The millinery people take a different course; their goods are kept well out of sight until the desired moment, and the sensational effect which the fashionable public crave is thus assured. Another disquieting symptom just now is very low prices at which plants, hyacinths in boxes especially, are offered, in some cases actually less than the original cost of the bulbs.

A disposition to favor light colored flowers in preference to the red and pink which have held the lead all through the season is manifest. Meteors and American Beauties move slowly and Bride out-classes Bridesmaid. J. K. Allen is receiving white violets in excellent quality and finds a gratifying increase in the call for them.

Fritz Dressel announces with becoming pride the arrival of a little Fritz at his home on the 8th inst. His friends have kept the telephone hot ever since with their congratulations.

Prof. John B. Smith will address the New York Florists' Club on Monday evening, March 14, on "Greenhouse Pests." Prof. Smith is a most entertaining talker, and should have a crowded house.

The American Institute held a successful meeting and exhibition on Wednesday, 9th inst., in which carnations were the leading feature.

The Park Board have made John De Wolf landscape architect at a salary of \$4000. He was selected from thirteen candidates, and will not be compelled to undergo a civil service examination.

The Florists' Board of Trade has been incorporated with a capital stock of \$5000.

C. Christianson will move from Broadway to Tenth street about May 1.

Fitzgerald & Hammond have taken the store at 113 West Thirtieth street vacated by M. A. Hart.

M. A. Hart talks of having an "Easter opening" as soon as the decorations of his new store are completed.

J. K. Allen has made some desirable improvements in his store, including repainting and change in location of office.

Geo. Field has been dazzling the eyes of local orchid fanciers with a handsome white Dendrobium Wardianum.

J. M. Logan, vice-president of the New York Florists' Club, returned from England on the Umbria, March 6.

**Philadelphia.**

BUSINESS QUIET.—PRICES A LITTLE LOWER.—BULBOUS STOCK ABUNDANT.—ATTEMPTED BURGLARY AT D. D. L. FARSON'S.

The past week has been the quietest since Lent set in; there seem to be no orders to use large quantities of any one kind of flower, and as a consequence stock of all kinds is plentiful and a shade lower.

Prices have held up bravely, but there comes a time when after hawking their stock about from store to store half the day without sales, the grower tumbles, and then so do the prices. The dealers will keep some for show, if the figures are tempting, as it is generally understood that a good display of stock increases business. Be this true or not the chief mission of the retail stores is to relieve

the growers and commission men of their various consignments, and stocks of plants and flowers, and to do so in as equitable a manner as is consistent with their dignity and the appreciation with which they are held by the flower buying public.

Prices are about as follows: Beauties \$6, \$5, \$4, \$3, \$2, and \$1 per dozen, the six dollar kind having stems four feet long and the one dollar grade about twelve inches. Brunners are now more plentiful and better than at any time this season, and sell from \$1.50 to \$4 per dozen. Teas are plentiful at from \$4 to \$8 per hundred. Carnations commence at \$1, move quickest at \$1.50, quality considered; the \$2 kind have quite a following and the aristocrats must be quoted at \$3 to \$4. Of these latter Wm. J. Baker, a huge red striped white ground variety is a conspicuous example. We doubt if any one ever took Wm. J. to be an aristocrat. He doesn't seem to be built that way, but his namesake finds a resting place in the houses of the rich exclusively, as none of them leave his fostering care unless the \$4 is forthcoming, and it is worth recording that he never has any left over, having customers for each consignment.

Bulbous stock, particularly daffodils, is abundant; \$3 to \$4 is the prevailing price. Lily of the valley same; for tulips \$3 is high; a little freesia is still about at \$1.50 to \$4. Violets are commencing to feel the effects of the warmer weather, and while the bunches are larger the prices are lower; 75 cents is now high for the best doubles, and single varieties are from 20 to 35 cents per hundred. It is bothering the growers hereabouts to name a price for their lilies for Easter delivery; \$10 per hundred flowers and buds has been the prevailing price for good stock the past few years, and not a few were satisfied with 50 cents per pot of five flowers or more to one plant. But things are different this season; most growers have thrown out half their stock and say the balance must be made to pay for those that failed. One grower says that he does not believe that he can be made to pay full prices for his bulbs, as while they were not guaranteed to be free from disease, they were found to be so badly infected that he will scarcely get enough out of the stock left to pay the original bill, and he proposes to make the dealer bear some of the loss. Another grower has turned up who declares that his stock bought from several dealers is as good this season as any he ever had, there being very little disease apparent. He thinks culture has much to do with the health of the plant.

Dutch hyacinths are quite plentiful and sell at \$10 per hundred in 4-inch pots. When asked if \$8 was not enough, a grower said "No, we have to get \$10 straight this year on account of the tariff." We wonder who paid the tariff on all the other dutiable articles this season, as there has been no perceptible increase in the prices of azaleas and bulbous stock. It would be too bad if the growers and dealers who seemed to want it had to pay it themselves.

Although he is not boasting about it, the good business done by D. D. L. Farson at his Fifteenth street store the past season has gotten out, and this, combined with the general air of prosperity about the place, tempted some of the "gentlemen of the jimmy" to pay him a visit a short time ago. He suffered no loss, however, beyond a few marks of their jimmy on the jamb of his front door, they being frightened away before effecting an entrance.

Chicago.

**BUSINESS DULL.—WHOLESALE PRICES DEMORALIZED.—POT PLANTS SCARCE.—PERSONAL.**

The warm bright weather experienced during the past week has caused a marked change in the cut flower business. The retail store trade which until the weather became fine was fairly good, is now quite the reverse; very few flowers are at present being sold except for funerals, and those to be sent as presents where they are required to be put in a more attractive form than when they are sold by the Greek fakirs, extraordinary large bunches of whom are now on the streets. To these fakirs the store men attribute the cause of the depression in their business.

In the wholesale market, except for first quality American Beauties and the better quality of carnations, there is no staple price for stock, only when one wholesaler wishes to buy from another, then the price is fixed sure enough.

Inquiries are beginning to be made for pot plants for Easter; some large orders have already been placed. The prospect is that there will not be enough first-class plants to supply the demand.

The Florists' Club met Thursday evening. Two new members were elected. P. J. Hauswirth, chairman of the committee on the entertainment of the carnation society, at their meeting here last month, made his final report. Mr. Hauswirth reported that all the accounts had been settled up, and 25% of the funds placed at the disposal of the committee had already been returned to the subscribers leaving a balance still in the hands of the committee of \$5.40, which was turned over to the club.

Mr. Hill, of Maywood, read a very entertaining paper on "Growing Roses for Profit." After the reading of the paper a very lively discussion followed on rose and violet growing. Mr. Hill exhibited a vase of remarkably fine Brides and Bridesaids. Mr. J. Swenson exhibited a bunch of phenomenally fine violets. Mr. Geo. Baldwin exhibited a fine collection of narcissus.

At the next meeting of the club Mr. E. Buettner is to read a paper on the Harrisii lily disease. Mr. Buettner has studied this subject for several years, and is capable of handling the matter in a way that will be both entertaining and instructive.

John B. Sherman has been elected president of the South Park Board of Commissioners. A. E. Foster was reappointed superintendent, Frederick Kanst gardener, and Edw. Kanst, asst. gardener.

Vaughan, McKellar & Winterson have a fine lot of cinerarias.

The Illinois Cut Flower Co. have a nice lot of small palms.

W. Lynch has added ice boxes to his supply department.

Frank Kennott, who was at home sick for a week is again back at his desk.

Alma E. Proser has gone to West Baden for a vacation of a week or two.

Alonzo Osen thinks of trying the Keeley cure to take the bluish out of his cheeks.

Mr. John Thorpe left Tuesday for Hudson, O., to buy after some changes to be made at the Lake orth homestead.

W. W. Barnard & Co. have opened a branch store for market gardens at 191 West Randolph street, (Haymarket Square).

W. L. Morris, of Des Moines, Iowa was the cut. Wednesday.

**SITUATIONS, WANTS, FOR SALE.**

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By a first-class all-round florist; specialty, cut flowers. F 10, care American Florist.

**SITUATION WANTED**—By the 1st or middle of April by an experienced gardener and florist, to take charge of private place. Address Box 342, Highland Park, Ill.

**SITUATION WANTED**—By a gardener, single. German; 18 years' experience; thoroughly able to take charge of private place. Best references. F S, care American Florist.

**SITUATION WANTED**—By young man, German, to S commercial place; 6 years' experience, sober and reliable; with chance of buying. Address E B, 26 State St., New York.

**SITUATION WANTED**—A No. 1 grower of roses, carnations, mums, etc.; sober and steady, competent to take charge; prefer the west. Address N N, care American Florist.

**SITUATION WANTED**—By young married man, one S who understands the growing of roses and general stock. First-class references. F F C, care Trenton Floral Co., Trenton, N. J.

**SITUATION WANTED**—By a first class all-round S florist, 16 years' experience; German, single; good grower of roses, carnations, mums and general stock. Good references. S, care American Florist.

**SITUATION WANTED**—By middle-aged gardener S and florist with large experience in this country and Europe, especially in greenhouse culture of all kinds; private place preferred. Address E M, care American Florist.

**SITUATION WANTED**—By gardener and florist in S commercial or private place; 15 years' experience, German, single man, age 30. Address E Hoken, care Wm. Frith & Co., 114 N. Market St., Nashville, Tenn.

**SITUATION WANTED**—By practical all-round flo- S rist, German, age 30, single; 20 years' experience in propagating and growing roses, carnations, mums, violets and pot plants. Best of references. FLOREST, 713 West 8th St., Cincinnati, O.

**SITUATION WANTED**—By young man of good S character on commercial or private place; 7 years' experience under first-class growers; age 24, German. Good references. Please state particulars. Address R R, 35 Hague St., Jersey City Heights, N. Y.

**SITUATION WANTED**—By an experienced grower S of florists' stock, roses and carnations a specialty, as foreman; will invest \$500 in place if a live one and near a good market. For particulars address BUSINESS PARTNER, care American Florist.

**SITUATION WANTED**—By German, age 27, speaks S English; 11 years' experience in palms, propagation and all kinds of pot plants; commercial place preferred; state terms. Address A L, 185 Clarkson St., Flatbush, Brooklyn, N. Y.

**SITUATION WANTED**—By a florist and landscape S gardener, German, married, 40 years old; grows orchids, roses, carnations, mums; capable to take charge of commercial or private place. References. Address FRANK A. GOECKE, Kalamazoo, Mich.

**SITUATION WANTED**—By a well-experienced fore- S man, a hustler, good manager, first-class rose and cut flower grower. Best of references. Only first-class parties need apply; open for engagement to suit employer. Address FOREMAN, care Am. Florist.

**SITUATION WANTED**—By young single man, gen- S eral commercial place, 13 years' experience, all branches, English and American, specialties roses and carnations; sober and reliable. References. State particulars and wages. HARRY DONNELLY, 35 Pawtucket Ave., Pawtucket, R. I.

**WANTED**—The address of Carl Jorgensen, Dane, S Amner. Address L. JENSEN, South Buffalo, Mont.

**FOR RENT**—Klondike here! 800 feet glass, stocked S with roses and carnations. \$25 per month, immediate possession. 101 N. 34th St., Reading, Pa.

**WANTED**—One or two first-class young workmen; S good, all round greenhouse men. Address CROWN HILL GREENHOUSE, 300 Senate Ave., Indianapolis, Ind.

**WANTED**—Simplex and best prices on 100 to 200 S American Beauty roses for planting out in field. Quote prices delivered in Dallas. TEXAS SEED & FLORAL Co., Dallas, Tex.

**WANTED**—Young man wanted as assistant fore- S man to grow mostly roses, carnations, bedding stuff, energetic, sober, no balence. Must be hustler, state wages. S J LONG, Petoskey, Mich.

**WANTED**—A young man accustomed to growing S celery, onions and asparagus, and who is willing and capable of making himself useful around green- houses. Good place, with chance for promotion. B A LINDSAY, Birmingham, Ala.

**WANTED**—To buy from growers when throwing out S 2000 of 2000 roses, Am Beauty, La France, Kalendar, Brides, Meteor, Albany, Siebrecht, Mulda, etc. State price. Name must be cheap. Western and southern growers preferred. STUCK, care Am. Florist.

**WANTED**—Competent and practical florist to take S charge of long-established business in western city; married men preferred. State salary expected. For full particulars address B. S. MILLS, 65 McLean Ave., Yonkers, N. Y.

**WANTED**—Reliable, sober man of good habits, to S take charge of 25,000 palms and ficus, and grow 50,000 ferns for dishes. \$30 per month and board; chance to be foreman if earnest and capable, with interest in the firm. A F, care Am. Florist.

**WANTED**—A competent grower of cucumbers and S tomatoes under glass; a single American preferred, who must come well recommended as to character and ability. State wages expected. EDGAR A. LAMPREY, Mgr. Nelson Farm, Marshfield Hills, Mass.

**FOR SALE**—400 feet 4-inch cast iron pipe; 38 boxes S 10x12 double A glass. 175, care Am. Florist.

**FOR SALE OR RENT**—Seven greenhouses on West S Foster Avenue, Chicago. Apply to John Leluan or next door.

**FOR SALE**—Cheap for cash, an old established flo- S rist and seed store drawing good business; owner has two places. 174, care American Florist.

**FOR SALE OR FOR RENT**—Three greenhouses S and residence at Rogers Park. For particulars call or address P G, Room 6, 127 Wells St., Chicago, Ill.

**FOR SALE OR RENT**—Flourishing florist business, S including stock of plants and all implements, with or without grounds. Terms to suit. For particulars address M, care American Florist.

**FOR SALE**—An old-established florist business, S Greenhouses well stocked; residence, outbuildings, 50 acres of land, on the line of R. R.; would sell before Easter for benefit of Easter trade. Death cause of sailing A M, care American Florist.

**FOR SALE.**

One dwelling house, two greenhouses 17x150, newly S built, well located and good home trade, on street car line, near city of 300,000 population. For particulars address H S, care American Florist.

**FOR SALE.**

Greenhouses in one of the best cities in Wisconsin, S A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write A. LEUBNER, Wausau, Wis.

**SITUATION WANTED.**

Place where a good man is wanted and fair S wages will be paid, between March and May. No objection to destination. Married, no children; age 35. Post Office Box 2, Dunellen, N. J.

**WANTED.**

A sober and industrious married man, one cap- S able of growing good roses and other plants on commercial place. Permanent situation for a good man. Wages \$12 per week.

**CHAS. FREMID,** RYE NURSERIES, - - - RYE, N. Y.

**Situation Wanted.**

**A COMPETENT MANAGER** of thorough abil- S ity and over 20 years' practical experience desires a position to take entire charge of private estate, park or first-class commercial place; an experienced culti- vator or palms, orchids, florists' stock in general, shrubbery, fruit and vegetables; a good floral decora- tor. Thoroughly reliable, married, with small fam- ily. Good wages required. Address

**FLORIST,** care S. J. Nelson, 206 E. 28th St., New York.

**WANTED**

A large quantity of Boston Fern. State S size and lowest cash price per thousand. Address . . .

**S J,** care American Florist, Eastern Office, 67 Bromfield St., Boston, Mass.

**Here is a Rare Opportunity**

\$800 will buy com- S plete flower stock, including stock, elaborate fixtures, a well stocked conservatory, etc., in a city of half a million inhabitants. An old es- tablished stand. Speak quick if interested. For particulars address

**S,** care American Florist.

Mention the American Florist when S writing to advertisers on this page.

St. Louis.

TRADE SLOWER.—STOCK COMING IN FREELY.  
—PREPARATIONS FOR EASTER TRADE.—  
WHOLESALE COMMISSION FIRM ASSIGNS.

Trade for the week just closed has been slower than at any time since the opening of Lent; so far Lent has not had such a depressing effect as one usually expects, but if it continues to be as dull as it has been for the past day or two the much talked of Lenten dullness will have arrived in full force. With the glass standing at about 60° at night, stock has commenced to come in more freely, and roses are the first thing to show any indications of an overstock. We hear, however, that carnations are quoted by out of town commission men at \$5 per 1000; the supply must be excessive somewhere; it is but just to say this is on a 5000 order.

Although Easter is more than a month away, growers and dealers are all making preparations for that time. From present indications plants will be the principal thing handled. The trade in these is following the eastern example and is growing larger and larger each season.

Especially run has been made since Lent commenced by Ellison & Tesson on violet plants in bloom, and a pot cover made in violet shades from crepe paper. The idea has taken immensely as the combinations are appropriate to the Lenten season.

The wholesale commission firm doing business under the name of Mound City Cut Flower Co. has made an assignment naming Mr. Barr, of the Barr & Widen Commercial Agency, as assignee.

Mr. J. M. Jordan is still very seriously ill.  
R. F. T.

**REINBERG BROS.**  
WHOLESALE  
GROWERS OF CUT FLOWERS.

500,000 FEET OF CLASS.  
We can fill all orders on short notice with all leading varieties of Roses and Carnations.  
We are Headquarters for fine AMERICAN BEAUTIES  
Give us a trial and convince yourself.  
Salesroom, 51 Wabash Ave., CHICAGO.

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long,  
50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

**H-L-SUNDERBRUCH CO.**  
WHOLESALE COMMISSION FLORISTS  
4th. and WALNUT STS.  
CINCINNATI, O.  
CONSIGNMENTS SOLICITED  
SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

OSWEGO, N. Y.—Mr. Geo. B. Jarrell died on the morning of February 25, he having received a stroke of apoplexy the previous evening. Mr. Jarrell was born in Watertown fifty-six years ago, and had been in the flower business in Oswego for the past fifteen years.

**Wholesale Flower Markets**

CINCINNATI, March 10.

Roses, Beauty select	30.00@40.00
" " medium	15.00@25.00
" Brides	5.00@7.00
" Bridesmaids	5.00@7.00
" Meteors	6.00@8.00
" Perles	4.00@5.00
Carnations	1.50@2.00
Valley fancy	3.00@4.00
Romans	2.00@3.00
Narcissus	3.00
Daffodils	3.00
Violets	.50@.75
Harrill	10.00@12.50
Callas	8.00@10.00
Tulips	3.00@4.00
Smilax	10.00@12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, March 10.

Roses, Beauties	5.00@35.00
" Meteors	5.00@7.00
" Brides, Bridesmaids	5.00@7.00
" Perles	4.00@5.00
" Wootton	2.00@3.00
" La France	2.00@3.00
" Kaiserline	3.00@4.00
" Carnot	4.00@10.00
Carnations	2.50@3.00
Violets, California	.25@.30
Valley single	.15@.25
Harrill	12.50@15.00
Callas	10.00@15.00
Tulips	3.00@5.00
Narcissus, Romans	2.00@4.00
Smilax	10.00@12.50
Freesia	2.00@2.50

MILWAUKEE, March 11.

Roses, Beauty	per dozen 1.00@4.00
" Brides, Bridesmaids	3.00@6.00
" Perle, Belle	3.00@5.00
" Meteors	3.00@6.00
Carnations	1.00@2.50
Violets	.50@.75
Romans	2.00@3.00
Valley	3.00@4.00
Freelias	3.00@4.00
Tulips, Hyacinths	2.00@3.00
Von Slons, Jonquils	2.00@3.00
Callas, Harrill	10.00@12.50
Smilax	10.00@12.50

BUFFALO, March 10.

Roses, Beauties	15.00@50.00
" Brides, Bridesmaids, Meteors	5.00@10.00
" Perles	4.00@5.00
" Niphetos, Meteors	4.00@5.00
" Kaiserlin, Meteors	4.00@10.00
Carnations extra	2.00@3.50
" ordinary	1.25@2.00
Valley	3.00@4.00
Violets	.75@1.00
Romans	2.00@4.00
Harrill	8.00@12.00
Smilax	12.50@15.00
Adiantum	1.25@1.50
Asparagus	50.00@75.00

COMPLETE LINE OF SUPPLIES  
WIRE WORK  
WE MAKE  
IMPORTERS OF  
BULBS  
PHONE 1270  
BOX 75  
ALWAYS ON HAND FINE STOCK OF CUT FLOWERS  
ELLIS & POLLWORTH  
MILWAUKEE WIS.

**C. A. KUEHN,**  
Wholesale Florist,  
1122 PINE STREET,  
ST. LOUIS, MO.

A complete line of Wire Designs.

**MOUND CITY CUT FLOWER CO.**

Wholesale Florists.

CONSIGNMENTS SOLICITED  
Special attention given to shipping orders  
1322 Pine St., ST. LOUIS, MO.

**C. W. WORS**

2740 Olive Street,  
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**FLOWERS** at  
WHOLESALE

ROSES, and a full line  
Headquarters for the South West  
When writing mention American Florist

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Wholesale Florists

**E. H. MICHEL**

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GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST  
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Also Dealer in Florists' Supplies and Wire Designs

W. A. MCFADDEN,

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NEAVE BUILDING,  
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Producers and Shippers  
of every description of  
High Class Floral Supplies.

**CYCLAMEN PLANTS.**  
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Quotations issued weekly, forwarded on request.

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Fresh Cut Flowers, Florists' Supplies  
Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 874.  
457 Milwaukee St., MILWAUKEE.

The American Florist Company's

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324 Dearborn Street, Chicago.

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 THE "OLD RELIABLE" FOR  
**WHOLESALE**  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**KENNICOTT BROS. CO.**  
**WHOLESALE CUT FLOWERS**  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING,**  
 WHOLESALE  
**COMMISSION FLORIST,**  
 51 WABASH AVENUE,  
 Consignments Solicited. CHICAGO.  
 Prompt attention to shipping orders.

**A. G. PRINCE & CO.**  
**Wholesale Cut Flowers**  
 AND FLORISTS' SUPPLIES.

**ROOTED GARNATION CUTTINGS**  
 Albertina and Bridesmaid, \$2.00 per 100;  
 Daybreak \$1.50 per 100; Lizzie McGowan,  
 Ivory Lizzie Gilbert, Fred Dorner and  
 Rose Queen, \$8.00 per 1000.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

**WINTER & GLOVER,**  
 21 Randolph St., CHICAGO.

**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us  
**WIRE DESIGNS: A Full Line.** Write us for  
 our Illustrated Catalogue.

**Vaughan, McKellar & Winterson**  
**WHOLESALE**  
**FLORISTS SUPPLIES**  
**FLORISTS SEEDS**  
**SPRING BULBS**  
**Cut Flowers**  
 All the leading varieties in Carna-  
 tion Rooted Cuttings  
 Best varieties of Young Roses in 2 1/2-in. Pots.  
 Fine well cured Pearl Tuberosa Bulbs, per 1000.....\$ 7.50  
 Extra fine mixed Gladioli Bulbs, per 1000..... 12.50  
 Fine mixed Gladioli Bulbs, per 1000..... 7.50  
 SEND FOR CATALOGUE.  
 Vaughan, McKellar & Winterson, - 45-47-49 Wabash Ave., Chicago.

**Wholesale Flower Markets**  
 CHICAGO, March 11.  
 Rosea, Beauties.....per doz. 1.50@4.00  
 " Brides..... 3.00@ 4.00  
 " Meteors, Bridesmaid, Kaiserlo..... 3.00@ 4.00  
 " Perle, Gontlers..... 1.00@ 3.00  
 " La France, Teatout..... 3.00@ 6.00  
 Carnations, common..... .75@ 2.00  
 " fancy..... 2.00@ 5.00  
 Violets..... .40@ .70  
 Narcissus, Romans..... 2.00@ 3.00  
 Callas..... 2.00@ 8.00  
 Harrisli..... 8.00  
 Valley..... 2.00@ 3.00  
 Tulips..... 1.00@ 4.00  
 Von Slons..... 2.00  
 Hyacinths..... 3.00@ 6.00  
 Adiantum..... 1.00  
 Smilax..... 10.00@12.00  
 Asparagus..... 50.00@75.00

**W. E. LYNCH,**  
 Consignments Solicited. **CUT FLOWERS.**  
**All Florists' Supplies.**  
 19 & 21 RANDOLPH STREET,  
 Fine Stock a Specialty. CHICAGO.

**A. L. RANDALL**  
**Wholesale Florist**  
 DON'T FORGET that we are at the old number,  
 126 Dearborn St., Chicago.  
 Write for special quotations on large orders.

**ILLINOIS CUT FLOWER CO.**  
**Wholesale Florists.**  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**N. Y. CUT FLOWER EXCHANGE**  
 404-412 E. 34th St. Near Ferry.  
 Open for Cut Flower Sales at 6 o'clock  
 Every Morning.....  
**DESIRABLE WALL SPACE TO RENT**  
**FOR ADVERTISING.**  
 JOHN DONALDSON, Secretary.

**Ford Bros...**  
**Wholesale Florists**  
 111 West 30th Street, NEW YORK.  
 Consignments Solicited. Telephone, 260 38th St.

**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1675 38th St.

**THE NEW YORK CUT FLOWER CO.**  
 119 and 121 West 23d Street,  
 112 and 114 West 24th Street,  
 Telephone 733-18th. NEW YORK.  
**CONSIGNMENTS SOLICITED.**  
 Special Attention Given to Shipping Orders.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of  
**CUT FLOWERS,**  
 51 WABASH AVENUE,  
 CHICAGO.  
 HEADQUARTERS FOR AMERICAN BEAUTIES.

**Bassett & Washburn** WE HAVE 50,000 American Beauty Plants  
 10 CUT FLOWERS FROM

**ROOTED CUTTINGS**  
 We are pleased to order a new for the following Rose  
 varieties, which are to be filled in relation.  
 We are growing cuttings to be in first-class condi-  
 tion and will be delivered as  
 soon as they are ready. Send in your orders now.  
**ROSES.**  
 BRIDESMAIDS \$1.50  
 METEORS PER HUNDRED.  
 LA FRANCE  
 If you wish for these kinds for we do not grow them  
 We shall have a large quantity of new plants later in the  
 season.  
**CARNATIONS.**  
 TRIUMPH \$2.00 per 100 4.50 per 1000  
 DAYBREAK 1.50 12.50  
 WM SCOTT 1.00 7.50  
 HARRISON SW: 1.00  
 MINNIE COOK 1.50 12.50  
 ROSE QUEEN 1.50 12.50

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**Cut Flowers at Wholesale**  
 All Florists' Supplies.  
**BASSETT & WASHBURN,**  
 Greenhouse and Residence, Store: 88 Wabash Ave., CHICAGO, ILL.  
 HINSDALE, ILL. Long Distance Phone Main 223.  
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ASPARAGUS PUMOSUS 50c a string.  
 SMILAX \$2.00 per doz. strings.

CONSIGN TO BUY FROM  
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 44 WEST 29TH STREET,  
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 THE BEST MARKET IN NEW YORK.

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**Wholesale Florists,**  
 Control the stock of many celebrated growers and  
 are prepared to quote prices on First Grade  
 Cut Flowers. All varieties.  
 38 West 28th St., and Cut Flower Exchange,  
 Tel. 961 18th Street. NEW YORK CITY.

**FRED. EHRET,**  
**Wholesale Florist,**  
 No. 1403 Fairmount Avenue,  
 Telephone, Long Distance. PHILADELPHIA.

**Wholesale Flower Markets**

NEW YORK, March 9.

Roses, Beauty.....	6 00@40.00
" Brides, Bridesmaid.....	2 00@ 6 00
" Testout, Carnot.....	3 00@ 8 00
" Morgan, Meteor.....	2 00@ 6 00
Carnations.....	1 00@ 1 50
" fancy.....	1 50@ 3 00
Valley.....	1 00@ 2 00
Mignonette.....	2 00@ 6 00
Violets.....	.30@ .50
Harrisl.....	4 00@ 6 00
Tulips.....	1 50@ 3 00

BOSTON, March 9.

Roses Beauties.....	10 00@35.00
" Perle, Niphotos.....	2 00@ 4 00
" Bride, Bridesmaid, Morgans.....	4 00@ 8 00
" Carnot Meteor.....	4 00@ 8 00
Carnations, ordinary.....	1 00@ 2 00
" fancy.....	2 00@ 3 00
Valley, Daffodils.....	2 00
Violets.....	.35@ .50
Freesia.....	1 00
Tulips.....	3 00

PHILADELPHIA March 9.

Roses, Beauties, per dozen.....	3 00@6.00
" Brunners, per dozen.....	1.50@4.00
" Teas.....	4 00@ 8 00
Carnations.....	1 00@ 2 00
" fancy.....	3 00@ 4 00
Valley.....	3 00@ 4 00
Violets.....	.25@ .75
Narcissus.....	2 50@ 3 00
Ilyacinths.....	2 00@ 3 00
Harrisl.....	10 00@12 00
Daffodils.....	3 00@ 4 00
Tulips.....	3 00

**John I. Raynor,**  
 49 WEST 28th STREET,  
 —NEW YORK.

**SPECIAL EXTRA STOCK OF**  
 AM. BEAUTY, METEOR,  
 BRIDESMAID, BRIDE.  
**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

**THOS. YOUNG, JR.**

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43 West 28th Street, New York.

**WALTER F. SHERIDAN,**  
 WHOLESALE  
**FLORIST,**  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
 returns for their stock at...

**JULIUS LANG'S**  
 53 W. 30th Street, - NEW YORK.

**Edward C. Horan,**  
 34 W. 29th Street, NEW YORK,  
**WHOLESALE • FLORIST.**

Careful Shipping to all parts of the country  
 Price list on application.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 So. 16th St., PHILADELPHIA.

Consignments Solicited. Special attention given to  
 shipping orders  
 Long Distance Telephone 5068 A.

**CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.**

**WELCH BROS., PROPRIETORS.**

Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

**J. K. ALLEN,**  
**Wholesale Florist.**  
 WHITE VIOLETS, finest quality.  
 EXTRA ROSES and other desirable specialties.  
 57 West 28th Street,  
 Long Distance Telephone 382-38th St NEW YORK.

**GALVIN & CO.**  
**Wholesale Florists**  
 AND DEALERS IN ALL  
 FLORISTS' SUPPLIES,  
**4 Ordway Place, BOSTON, MASS.**  
 Cut Flower Consignments Solicited. Best market.

**GEORGE A. SUTHERLAND,**  
**Cut Flowers & Florists' Supplies**  
**WHOLESALE.**  
 67 Bromfield St., BOSTON, MASS.

**Wholesale Florists** **JOBBERS IN**  
 ALWAYS ON HAND:  
 CARNATIONS,  
 BRIDESMAIDS,  
 BRIDES.  
  
**FLORIST'S SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Auctioneers.  
**84 HAWLEY STREET, - BOSTON.**

**JOHN YOUNG,**  
**ROSES, CARNATIONS, VALLEY**  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.

**FRANK MILLANG,**  
**CUT FLOWERS,**  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 Cut Flower Exchange, NEW YORK.

**Buffalo.**

SPRING WEATHER ARRIVES. — HALF-PRICE AND BARGAIN COUNTER SALES.—A CARNATION EXHIBITION.

We are having weather that is decidedly suggestive of spring; the first robin has been seen, and the mud is deep on the country roads. Lent is here, too, and the customary quietness is being felt in the flower trade. Flowers are plentiful enough, such as they are, and good enough, what there is of them.

To help liven things up, some of the down-town flower stores have been indulging in half-price sales, and bargain counters, and other advanced ways of the department store.

Violets are feeling the bright weather and are abundant and small.

Long is arranging for a carnation exhibition for Thursday the 10th inst, so I hope that those of us who were not able to get to Chicago will have an opportunity to see some of the new varieties, and see for ourselves what advance has been made during the year. This exhibition will probably bring out two or three new things from local growers, which seem to promise well.

We were honored during the week with an all too brief visit from Mr. W. N. Rudd, of Chicago, and we shall now proceed to do carnations and chrysanthemums in a way that will startle the neighborhood.

The Florists' Club still lives and it will hold its annual meeting, and give its customary banquet in a few days. At the same time it is hoped that a decision may be reached in regard to a fall show. C.

**New Orleans.**

Our winter has been very mild, consequently no killed geraniums, no dead heliotrope, alternanthera, or other plants that the florists have to replenish every season. This is bad for the business in one way, while on the contrary it gives more satisfaction to the amateur, who is

thus more encouraged to invest in some new plants.

Our plant market has fully started. After a nice display of azaleas, which were offered during the last month, comes the geranium, which fills the bulk of our stands at the market. They are generally nice and well grown, retailing at from 15 to 25 cents according to size. The supply of all other plants seems to be very large this year, but about the prices we can not say very much yet.

Roses are offered at such different figures that it is hard to tell what they are worth. Still several sensible florists seem to realize that it is foolish to offer a well grown potted rose for any less than \$3 a dozen.

Preparations are being made for the flower show which is to take place the last days of the month. M. M. L.

**Worcester, Mass.**

The annual reunion and banquet of the Worcester County Horticultural Society was held on Wednesday evening, March 9, and proved to be a very enjoyable affair. The banquet was served at 6:30 o'clock, and was followed by brief addresses from prominent horticulturists

and other guests of the society; after which dancing was indulged in until an early hour.

Trade continues fairly brisk, and florists are getting about all the stock they can handle. The weather is very warm and sunny.

A. H. L.

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### Helpful Reminders.

This being a time when the retail trade is moderately quiet, and the evenings a good length, we are inclined to read most and lay our plans. It is opportune to remind growers of a few points as to how best to stock their houses for future crops, and suggest desirable alterations. I will take the first topic only now.

There is a growing demand for something suitable for decorations more than roses, carnations, violets, lily of the valley and *Harrisii* for staple flowers, or hyacinths, daffodils, chrysanthemums or sweet peas for changes, not only for a change of variety but an improvement in style. A person who forms a habit of using flowers in the home, grows to enjoy them more and more as he learns to appreciate the perfect from the deformed. Note the development in rose and carnation culture; how short stemmed flowers were used five years ago; they can scarcely be given away now.

The successful decorators are imitating natural growths, drooping foliage, towering branches, vines for high places, etc., which are not in demand regularly but have come to be necessary at times.

I find that in many greenhouses which are adapted for just such plants as are wanted to-day, much space is wasted entirely. In the northwest and northeast corners, which are not used, large plants would not obstruct light from an ordinary crop in the benches.

Considerable space overhead at the entrance of many doorways are of no value to the crops in benches; something pretty there would be so much gain, when north walls as a rule go to waste, I mean a north wall which faces south; also

where a walk runs north and south, overhead it might as well be covered in almost every instance. Plants suitable for filling the demand referred to which are adapted to the situation spoken of, are of course many, but I will only mention those which I have had practical experience with. They are *Jasminum grandiflorum*, *Rhynchospermum jasminoides*, *Bougainvillea*, *Stephanotis floribunda*, *Bignonia venusta*, the Lamarque rose, *Marechal Niel* rose, *Passiflora princeps*, *Lygodium scandens*, *asparagus* (three varieties), and *Maurandya*.

Jasmine grown in open ground, can be trained up a few wires south of walk and cover the walk so that a person may pass under it.

*Rhynchospermum* is a compact growing vine; it only blooms once a year, but bears an immense crop and lasts for six weeks. The flowers are sweet-scented, shaped something like potato blossoms. A milky sap runs out when cut. Rake in some manure every year, and be sure it has a good watering once a month. The temperature of the house in winter should be from 50° to 60° degrees.

The *stephanotis* is entirely different; it does well in the same house but it is best to give this plant numerous bamboo poles to run on, such as are commonly used for staking chrysanthemums and other plants, from six to eight feet long. The vines are thick stemmed with but few leaves; there are no tendrils, but it likes to run around other stems. Place a number of these canes in the ground, radiating in different directions, like a fan or a peacock's tail; a vine will run up each. The flowers are in clusters mostly at the end; it takes so little light that it can run over other plants with no injury. The

flowers come in summer mostly, when greenhouse flowers are so scarce.

The *Bougainvillea* has been so much talked about lately that no description is necessary.

The *Bignonia venusta* is a grand plant, and can be run on wires overhead in a part of the greenhouse used for packing and filling orders, and serves as an awning to shade the men at work. When it gets in the way of other plants, cut it back. It bears immense crops of flowers in the shape of a trumpet honeysuckle, but about ten times as large, and of a rich dark orange color. This plant will be in bloom from March 15 to April 15, and can be cut in pieces varying from one to ten feet long, often giving a glorious crop for Easter.

The Lamarque and *Marechal Niel* roses will grow almost anywhere; growers can have the roots in open ground, any place, and train the stem to wherever there is overhead room or wall space; they have pretty flowers and the branches are quite valuable for arranging with other roses, the whole year around. The demand for this sort of wood is on the increase.

*Passiflora princeps* has pretty, closely arranged leaves, with a scarlet flower; it is always welcome in decorations. It is a money maker to some enterprising grower, as it ships well.

The *Lygodium scandens* is a beautiful vine; it is most particularly valuable for making its strings regular in summer, when *smilax* is frequently out of crop. It is prettier than *smilax*, a small bed of it sends up its fronds year after year with little attention other than keeping out the weeds and giving water; it is a fern. C. B. W.

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S. L. BRONSON, New Haven Conn., Jan. 4th, 1898 says: I have in my greenhouse one of your No. 60 Standard Sectional Hot Water Boilers, bought June 28th, 1897. I find that its work is truly excellent and think it is the best heater I ever had. I can find no fault with it in any particular.

GEORGE BOYCE, Florist, Utica, N. Y., Jan. 31st, 1898, says: I have thoroughly tested the No. 50 Standard Sectional Hot Water Boiler bought of you last fall and it is a pronounced success. It is very easy to raise the water to a high temperature and keep it so. The boiler is easy to operate and I can arrange the fire at 10 o'clock at night and find it in good condition at 7 o'clock in the morning, and by the use of drafts quickly obtain a new, bright fire for the day. The arrangements for cleaning are admirable as every part of the boiler is accessible to the light and cleaning brush. You have certainly secured the right construction for a first-class greenhouse heater, and I can heartily recommend it to all florists.

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**Grafted Versus Own Root Roses.**

The article under the above caption in the issue of February 12, from the pen of our esteemed friend, Mr. May, surprised me more than a little I must say. Though written ostensibly as a reply to certain letters of inquiry bearing upon the subject of grafting, it is very evident that Mr. May intended it to be, at the same time, a good square broad-sider for the man who was so reckless as to advocate grafted roses in his regular rose notes published in this paper. There can be no harm, however, in a little friendly criticism on the part of Mr. May. Criticism makes things lively, and is apt to bring out the truth and let in some light. We are a good deal in the dark yet in respect to many of the problems and difficulties of rose growing, and if any light can be turned on, any heresies nailed to the wall, any specious theories exploded by such criticism the whole rose growing fraternity will be placed under an everlasting obligation.

After reading the article in question very carefully, and thoroughly weighing all the evidence, pro and con, an impartial and unbiased mind would probably conclude that a clear case had been made out, and that henceforth no man (not a fool) would think of planting a grafted rose, which costs more to begin with, and produces less in the end. I am glad that Mr. May has said frankly he can give the experience of only one man (himself), because that gives the parties to the other side of the question a chance to show that the experience and testimony of one man, be he ever so conscientious, is not proof positive either one way or the other. I believe it is the preponderance of testimony which counts. If Mr. May has tried faithfully and continuously for twenty-four years to grow grafted roses, and in all that time has not met with success, he surely deserves the thanks of every member of the craft for his remarkable perseverance and Job-like patience. I confess that I should have given up in disgust years ago.

In my contributions to this paper I have at different times during the last two years said a good word for grafted roses; I couldn't help it. Somehow it seemed too good a thing to keep quiet about. I have claimed that they were in many respects superior to plants raised from cuttings, basing my claim on the following observations and conclusions: First, that plants worked on the Manetti if done properly, grow much more rapidly in the early stages than do those from cuttings, and consequently are ready to bloom much earlier in the season. This fact does not seem to be controverted. In the next place, that grafted plants will produce many more flowers during the season, which will grade higher on the average, because of longer and stiffer stems, even if the blooms are not any larger. Mr. May takes issue on this point, asserting that in his case the own root stock produced from 10% to 12% more blooms than the grafted article. If his plants bloomed so poorly I am not surprised that he is down "on 'em."

In the spring of 1886 the Bride made her debut and with us the first season was rather weak and disappointing (I suppose we expected too much). The next spring I grafted enough on the Manetti to plant half a bench as an experiment, with very gratifying results. It was not necessary to mark them, the increased vigor and floriferousness at once arrested the attention, the difference was very marked all through the season though we unfortunately kept no separate

record of the cut. Three years ago, at Mr. A. N. Pierson's we experimented to the extent of 15,000 plants grafting some of every variety, and grew them side by side with own root stock, the result was that with the exception of Perle and Sunset, the grafted stock netted from 25% to 100% above the other, and led us to drop the rooted plants entirely, as far as Bride and Bridesmaid were concerned. One house with solid beds holding 1800 plants was filled with Bride, all grafted, and proved to be the finest house of roses that I have ever seen; the average per plant I do not remember, but the cut was large, and at least 75% of the flowers were good enough to class as extras. The same plants carried over were equally productive and the flowers quite as fine, or more so the following season. Another house with benches holding 2500 plants was filled with Bridesmaid, all grafted. I have previously called attention to this house, the season's cut of which was 130,000 blooms, or an average of fifty-two per plant; the quality was not quite equal to the Brides in solid beds, but remarkably good nevertheless. I think Mr. May will agree that this is a very good average for Bridesmaid, almost equal to his best own root stock.

Another point I have urged in favor of grafted plants, and I now urge it more strongly than ever, namely that grafting gives increased vitality to the variety, and that by following it up year after year, instead of a rose becoming enfeebled and gradually deteriorating to be in the end discarded, as a result of the high pressure system of forcing under glass, with no fixed season for rest and recuperation, it is possible I think to not only maintain its native original vigor, but to actually improve upon it each successive year. This is no mere theory I am advancing, as from actual experience I am positive that it is so.

I would like to take Mr. May over to a little town in the center of the nutmeg

state and show him house after house of Bride and Bridesmaid, every plant of which are on the Manetti stock. I would especially call his attention to four large houses standing side by side, two of them Bridesmaid, one Mrs. Pierpont Morgan, and the other Meteor, all grafted (I have never advocated the grafting of the two last named kinds), but if Mr. May can walk through those houses and see their wealth of foliage and bloom, and afterwards inspect the huge refrigerators where nearly all the blooms are "specials" and "extras," and then deliberately sit down and write to some correspondent that grafting is a failure, I shall be driven to the conclusion that "none are so blind as those who won't see."

In making our tests three years ago we had both grafted and own-root plants growing side by side in the same kind of soil, and having precisely the same treatment, in at least ten different houses, and when we came to pull them out at the end of the season we found, though we had not suspected it, that comparatively few of those on their own roots were free from root galls; some were a perfect mass, while not a trace could be seen on the Manetti; rather strange it seems to me, if it is really susceptible to the eel-worm. Since then I have received a great many inquiries bearing on this point, and to thoroughly satisfy myself I have examined hundreds of plants, and have also inquired of those who were likely to know, but can truthfully say that I have never seen the first symptom of eel-worm on the roots of the Manetti.

In conclusion I would say that I have no doubt whatever of the sincerity of Mr. May in making the statements contained in his article, and that I thoroughly appreciate the service Mr. May has rendered to the rose-growing fraternity during the many years that he has freely and unreservedly given of his knowledge and experience for the benefit of all. May the good work go on. ROBT. STIMPSON.

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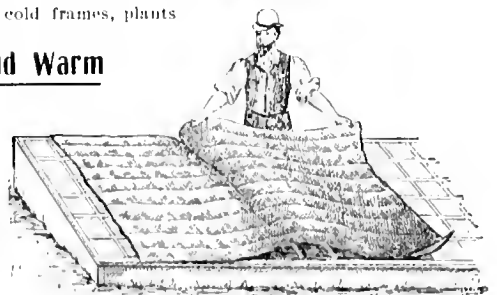
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**Death of Charles Hamilton.**

Whether the saying, "Death loves a shining mark," be true in general or not, it certainly seems so when the membership of the Gardeners' Club of Baltimore is concerned. There was probably not one man in the trade who did not feel a pang of sincere grief when he heard of the death of Mr. Charles Hamilton on Thursday, March 3, at 5 o'clock a. m. Genial, sociable, kind-hearted, whole-souled "Charley." Where was the man in trouble that he did not sympathize with? Where was the sorrow he did not try to alleviate, the burden he would not share, the trial that he was not interested in? Where can be found the record of a more unostentatiously helpful, sincere, generous, unselfish life?

He had been seriously ill several times during the last four or five years; but after passing through a severe operation last year, had apparently quite recovered and when last at the club, was the picture of health and good spirits. His devotion to the interests of the club can best be shown by his action at the last meeting, when a number of members having failed to pay their dues for some time, he strenuously opposed striking their names from the roll, and finally undertook to see each one of them personally, and endeavor to persuade them to pay up.

His unflinching good humor, and ready wit made him a general favorite. All seemed to appreciate the frankness and the open cheery way with which he engaged in the discussions and debates at the club, and in private life. He was born in County Armagh, Ireland, in 1828, and was educated at the National Academy. At the age of fifteen he began gardening on the grounds of Sir James Strong, Lyon Abbey. Four years later he went to the Botanical Garden at Dublin, where he remained until 1851, when he came to America. After spending three years in the florist establishment of Mr. Solomon B. Davies, he engaged with the late Mr. Hugh Jenkins, coffee importer. While here he imported many orchids and exotics for Mr. Thomas Winans and Dr. Edmondson. He next entered the Bank of Baltimore where he remained until 1862, when he started his own green-houses on the York road near Waverly.

In addition to the Gardeners' Club, where he was chairman of the executive committee, he held membership in the Improved Order of Heptasophs, and the Independent Order of American Mechanics.

He was married to Miss Margaret Barnhill, of Londonderry, Ireland, by whom he had four daughters who survive him, Misses Margaret E., Mary A., and Clara J. Hamilton and Mrs. Geo. B. Roche.

The funeral took place on Saturday at 3 p. m., and a better evidence of the high regard in which he was held, could not be asked than the attendance of gardeners on the chief market day of the week, and the great number of really beautiful floral pieces with which the cemetery lot was filled. The pall bearers were Messrs. N. F. Flitton, I. H. Moss, Geo. Roche, Sr., W. Hart, Jas. Pentland and Wm. McRoberts, Jr. MACK.

PATERSON, N. J.—John Kerberg, of 114 Broadway, was struck and instantly killed by an express train on the Susquehanna railroad near Rochelle Park, when crossing the tracks on the morning of March 7. He leaves a widow and one son.

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St. Louis reports trade very active the past week on all lines.

The mild and spring-like weather of the past week has increased the mail orders from 20% to 30%.

VISITED CHICAGO: W. Brotherton, B. F. Brown, B. L. Grant.

The Brown Bag-Filling Co. are putting in four of their machines at Chicago.

GOODWIN, HARRIES & Co., of Chicago, are making pea contracts in Wisconsin.

ALL California reports agree as to cold and drouth.

SWEET CORN is getting very scarce, and at last materially higher in price, also Telephone peas.

COLUMBUS, O.—A. W. Livingston's Sons report that their receipts are almost exactly 25% more this year than last, and the number of orders shows the same rate of increase. This is more surprising when it is remembered that the weather last year was much more forward.

ST. PAUL.—L. L. May & Co. find business better on all lines, their trade in packet seeds in cases being exceptionally good both east and west. Carload orders for early Ohio potatoes are coming in. Mr. May will probably visit California this summer.

MINNEAPOLIS.—S. V. Haines, of the firm of Miss C. H. Lippincott reports high water mark in number of letters received March 7. Total cash received also shows gain.

Catalogues Received.

R. Douglas' Sons, Waukegan, Ill., trees, shrubs and fruits; Wm. H. Moon Co., Morrisville, Pa., trees, shrubs, fruits and plants; Geo. F. Taber, Glen St. Mary, Fla., trees, shrubs and fruits; M. B. Faxon, Boston, Mass., seeds; Parsons & Sons Co., Flushing, N. Y., trees, shrubs and fruits; A. Tilton & Son, Cleveland, O., seeds; L. E. Archib & Bro., Carthage, Mo., seeds; F. Sander & Co., New York, plants; Walter A. Potter & Co., Providence, R. I., seeds; N. W. Craft, Shore, N. C., fruits, vines and plants; Jos. W. Vestal & Son, Little Rock, Ark., plants; Ingleside Floral Co., Alhambra, Cal., plants; Lager & Hurrell, Summit, N. J., orchids and orchid sundries; B. F. Merriman, Painesville, O., trees, shrubs and fruits; Williams & Sons Co., Batavia, Ill., plants and sundries; Frank Banning, Kinsman, O., seeds; A. A. Richardson, Fairbault, Minn., seeds; Herbert A. Jackson, Portland, Me., trees, shrubs and fruits; E. C. Reese, Harrington, Del., fruits; John F. Dayton, Waukon, Iowa, fruits; A. T. Goldsborough, Washington, D. C., fruits; Wm. H. Harrison & Sons, Lebanon Springs, N. Y., trees, shrubs and plants; Crite Nurseries, Crite, Neb., trees, shrubs and fruits; F. G. Pratt, Concord, Mass., trees, shrubs and plants; Geo. H. Whiting, Yankton, S. Dakota, trees, shrubs and fruits; S. Denton, Fullerton, Cal., trees, shrubs, fruits and plants; Ketten Bros., Luxembourg, roses; J. C. Schmidt, Erfurt, Germany, sundries; L. H. Krelage & Sons, Harlem, Holland, bulbs, roots and plants; Wilhelm Pfitzer, Stuttgart, Ger., many seeds and plants; Ch. Molin, Lyon, France, seeds and plants; Webster Bros.,

Hamilton, Ont., plants; Hoosier Drill Co., Richmond, Ind., drills.

Cut Flower Price Lists Received.

Welch Bros., Boston; Wm. F. Kasting, Buffalo; W. A. McFadden, Cincinnati; Bassett & Washburn, Chicago; S. S. Pennock, Philadelphia; Frank W. Ball, Cincinnati; Holton & Hunkel, Milwaukee; Ellis & Pollworth, Milwaukee; Illinois Cut Flower Company, Chicago.

Portland, Ore.

Mrs. Rosa Pfunder, wife of L. G. Pfunder, the pioneer florist of Portland, Ore., died February 28, after a brief illness. Besides four children, who mourn the loss of their mother, Mr. Pfunder has lost a true and faithful wife and untiring helpmate in business. GEO. OTTEN.

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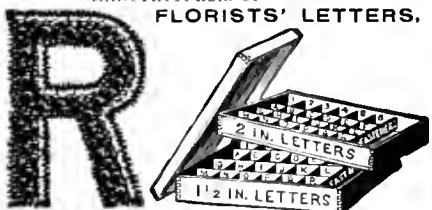
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**Tuesday, March 15th, 1898**

AT 11 A. M.  
60 Vesey St., NEW YORK.

**Chicago Horticultural Society.**

We have received the preliminary list of premiums offered by this society for competition at the exhibition to be held November 8 to 12, inclusive. For the best specimens of tomato grafted on potato three prizes are offered, first, \$15; second, \$10; third, \$5. There are many new classes in cut roses and cut carnations, and the classes of all kinds in which prizes are offered now number 225. The prizes for chrysanthemum blooms and plants, also table decorations, have been very considerably enlarged. In all there are offered for this single exhibition some dozen silver medals, and cash prizes to the amount of close upon \$3000.

Copies of the premium list may be had upon application to the assistant secretary, room 202, 185 Dearborn street Chicago.

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3 Plants, 6-in. Pot, 24 to 32-in. high, very bushy, each	\$1.00
3 " 7-in. " 32 to 36 " " " "	1.50
3 " 8-in. " 36 to 42 " " " "	2.00
3 " 8-in. " 42 to 48 " " " "	2.50
1 " 10-in. " 4 to 5-ft. high, " " "	5.00

ALL MEASUREMENTS FROM TOP OF POT.

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50 or more fronds (in pans).....		
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Very large, full of fronds, 3 feet over	1.00	9.00
6-inch pots. fit for 8-inch.....		
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Same sizes as above.....	1.00	9.00
Fine for hanging baskets, fronds		
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<b>Lomaria Gibba, 4 inch, very strong.....</b>		1.00
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<b>Nephrolepis Exaltata, 4-in., very strong.....</b>	\$10 per 100	1.50
Ferns from hats, fine little plants.....	10 (40 per 1000	
100 to 10 sorts mailed as sample for \$1.25.		

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**Martin Benson,**  
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**Nephrolepis Exaltata Bostoniensis.**  
Strong plants, 6-inch pots, \$1.00 each; \$12.00 per doz.; also three varieties of **PTERIS**, bushy plants, 5-inch pots, 30c each; \$2.40 per doz.

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## Carnations.

Helen Keller is a carnation one seldom sees to-day and will serve as a good object lesson. I had the pleasure of seeing this variety the year it was originated and watched its development with a great deal of pleasure, and am watching it to-day as a teacher of facts, some of which will be given later on in the season.

Mr. Lonsdale, the originator of this variety, we all know as a man who does not do things by halves, and he certainly did not do this by halves. It was a pleasure to see it growing as he grew it, every flower a perfect gem as to form and markings, and the stems holding the flowers erect from as good and healthy plants as one could wish to see. The year it was sent out was but a repetition of the good qualities it had the year before, and visits to the place three or four times during the season always found it in bloom and bud. The cuttings were propagated with care, and the plants were not maltreated in any way to produce cuttings in quantity.

With all this promise and care the variety is now grown only by a few growers (with these few growers there is nothing in the market to-day can touch it). With the major portion of the growers the flowers do not open; they seem to get sleepy in the bud, and other faults are found, not without reason, either. The variety seemed to lose vigor the year it was put on the market, and has been going from bad to worse ever since.

Helen Keller is not alone in this respect, many of our new ones of the past few years have gone the same way, and there is certainly something wrong somewhere. I may be all wrong in my ideas, but the facts of the case seem to point out that we are going wrong with our introductions, by feeding them and petting them up to the extent we do for the purpose of having not only fine, but superb flowers to show. Would it not be better for the introducer of a new variety to have a portion of his stock set aside for the production of exhibition blooms and the balance of it grown under good cultural condition and without any excess of stimulants, so as to produce a better class of wood for propagation. This would give the variety a better show with the general run of growers and would, I believe, considerably decrease the list of introductions, called in private correspondence, humbugs, frauds, etc.

Some of the new varieties of this season are just this class of cuttings taken from plants that are over stimulated, and the indications are that there will be several failures among the introductions of 1898, in a great measure due to this very cause. Once the general run of carnation growers recognize the fact that to have good carnations they must have houses equal to the best rose houses, and give them as much or in fact more care than a house of roses, this feature of carnation growing will be overcome. Until this era arrives the introducer of a new variety should endeavor to have it in such a shape that it will stand the test of medium culture, or expect his variety to be condemned.

A few words regarding the treatment of this class of stock may help the case somewhat.

When a doctor prescribes whisky for a temperate patient he will prescribe teaspoonful doses, increasing to tablespoonful and if the treatment is for a lengthy period he will gradually get up to a bar sized drink. Now, if you are the recipient of a batch of cuttings that look as if they had been taken from strongly stimulated

stock, or were boxed up in rich soil to make them appear extra strong and healthy, do not give them poor treatment in any way, shape or form. Keep up the feeding process or you and the variety are both "goners."

Give such cuttings good rich soil, with a little lime added if your soil is deficient in that element. See that they do not wilt or suffer from an excess or lack of water, and grow them in a temperature of at least 50° until well established in the pots or boxes, after which they will be the better for a temperature of 45° (these temperatures are for night with 10° higher during the day); grow them along in the latter temperature until planted out.

For my own stock I like to grow them in an ordinarily good soil and a temperature of about 50°, but for nearly all novelties it will be better to keep up the feeding process, and not let it lag until the variety has become thoroughly acclimated to your soil and treatment.

If the cuttings come affected with rust, do not grow them in a lower temperature than 50°; 55° is better. Because cuttings have rust is no reason for throwing them away, as I have known instances without number where it has grown out of them or left them for some reason unknown. The time to throw them away, if at all, is just before planting in the field. It is not a wise thing to plant a lot of rusted stock in the same field with

clean, for summer winds and rains will carry it from one lot to the other, and the result will be that your general stock will all become more or less affected, and while we all recognize the fact that rust is not the serious affair we once thought it, we at the same time want as much of our stock free from it as possible.

Summer treatment of rusted stock will form the paper for next week.

ALBERT M. HERR.

LENEX, MASS.—The March meeting of the Horticultural Society was attended by about thirty members. Two visitors, W. J. Stewart, of Boston, and W. A. Prosser, of New York, were present and in the absence of any regular programme were drawn upon for such entertainment as they could offer as the result of their experiences of the scenery and hospitality of the Berkshire hills in winter. Messrs. Russell, Donohue, Finaghty, Huss and Wingett were soon involved in the discussion which yielded plenty of entertainment, at least for their auditors. There was a nice exhibition of carnations, including a group of new ones from C. W. Ward, and some fine specimen blooms from Geo. Thompson. The latter received a certificate for his Storm King, and like honors were conferred on Mr. Ward's Gold Nugget, John Young and New York. A talk by Mr. Harrison on fruit is promised for the next meeting. Four new members were admitted.

## The New Carnation, Cerise Queen.

READ WHAT THOSE THAT ARE GROWING IT HAVE TO SAY:

MOUNT GREENWOOD, ILL.

MR. FRED BREITMEYER,

Mt. Clemens, Mich.

DEAR SIR:—In reply to yours for our experience of Cerise Queen, will say that under our treatment the color, form and substance is all that can be desired; we have also found it a very free and continuous bloomer and have never found a bursted only the whole season; it is a little weak in the stem, but we lay that to the poor place in which it is growing, also we think one should be careful and not overfeed it, as it does not need it, but produces a fine flower under ordinary care.

Yours truly, C. W. JOHNSON.

H. DALE, Cut Flower Grower,  
BRAMPTON, ONTARIO.

MESSRS. J. BREITMEYER & SONS,

Mt. Clemens, Mich.

GENTS:—The plants of Cerise Queen which you sent me last spring for trial have done well; the flower is of very pleasing color, stem medium length, 15 to 18 inches; habit of plant good. I shall plant it again next year.

Your truly, H. DALE.

We predict CERISE QUEEN is the coming Dark Pink Commercial Carnation. Orders booked and filled in rotation. Price, \$2 per doz.; \$10 per 100; \$75 per 1000. Major Plugree the best of all yellows. Buy your stock from the Originators. Our stock is in excellent condition; \$5 per 100; \$10 per 1000, R. C.

JOHN BREITMEYER & SONS, Cor. Gratiot and Miami Aves DETROIT, MICH.

DAILLEDOUZE BROS.,

FLATBUSH, BROOKLYN, N. Y.

JOHN BREITMEYER & SONS,

Mt. Clemens, Mich.

GENTS:—We have a few plants of your No. 16, Cerise Queen, on trial; the flower is medium size, but fine color, in fact the only fault we find is its dwarf habit; we should like to grow some for side benches, as we believe it far superior to Tidal Wave for that purpose, and should make a commercial variety, but not high priced. Please give us your best price on 1000 rooted cuttings.

Very truly yours,

DAILLEDOUZE BROS.

GEO. A. RACKHAM, Wholesale Grower,  
DETROIT, MICH.

J. BREITMEYER & SONS,

Mt. Clemens, Mich.

DEAR SIR:—In reply to yours asking as to my success with your No. 16, Cerise Queen, will say that I consider it the ideal Carnation of its type, very productive, continuous, stiff stem, of medium length, and holds its color longer on the plant than any Tidal Wave ever grown. I shall plant a house of it, if I am able to procure the stock.

Yours, GEO. A. RACKHAM.

## Flora Hill

## CARNATION

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand and plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

E. G. HILL & CO.,

Richmond, Ind.



### A Visit to Rogers Park.

At the southeast corner of Ridge avenue and Pratt street, Adam Zender has four large rose houses. One house in Beauties, one of Meteors and two with Brides, Bridesmaid, Kaiserin and Perle. Although off crop at present the plants are in excellent condition and breaking finely. There will be a large crop here very soon. About two blocks south, on the opposite side of Ridge avenue, Mr. Zender has a larger place. Here roses and carnations are grown. One house of Portias was phenomenally good. Mr. Zender considers Portia his best paying carnation. While going through a house of McGowan Mr. Zender called attention to the fact that though generally the plants were strong and healthy, a few were dying. An examination revealed the disease to be stem rot, and every plant so affected had been planted from one to three inches too deep. So much has been written about the injurious effects of planting carnations too deep that the subject should by this time be thoroughly understood by every carnation grower. When carnation plants are unevenly grown, some short and others tall, with perhaps five or six inches of clear stem before branching, the average employe, unless closely looked after, is tempted to set the plants so as to make them look the best at the time of planting, by planting the tall long stemmed ones deep, so as to give the plants a more even appearance. The result is that unless they are very carefully watered, the deep planted ones soon die.

All roses here were in fine shape. A very large number of flowers are being cut at present. One large house about 170 feet long, half Brides and half Brides-

maids, was in a remarkably vigorous condition. A heavy crop of flowers is being cut from this house, and at the same time strong breaks are coming along that will produce a more abundant crop later on. Mr. Zender says this house was the last one he planted, and his poorest and smallest plants were used. The very hot weather which came on soon after planting seemed to check the growth in this less than in any of the others.

Wietor Brothers, on Devon avenue, about a quarter of a mile southwest of Mr. Zender's place were next visited. The firm of Wietor Brothers is one of the five largest growers around Chicago. Roses are the principal product, and American Beauty the leading rose grown. Four houses of Meteors were very good. Messrs. Wietor have one house all planted to Perle, except a few President Carnots. As a winter rose Carnot is a total failure. It neither produces wood nor flowers. About three-fourths of the whole place is planted in American Beauties. I never before saw Beauty plants so uniform in size and shape after a winter forcing. Quite a large number of blooms are being cut at present, though but a small proportion on long stems. There will be a good crop of long stemmed Beauties in a few weeks.

Triumph and Armazindy are the favorite carnations here. They claim that Triumph with them produces as many flowers as Scott and of a superior quality. I have seen Triumph in a number of places around Chicago, but nowhere else so good as here. Armazindy does equally well, and from the appearance of the plants as grown here, should judge it to

be a wonderful bloomer for a carnation of its size.

Wietor Brothers have a sport from Armazindy which is a very beautiful carnation. The color is a pink between Scott and Tidal Wave. It is quite a large flower with stem and foliage all that could be desired. They are now building five new houses, 27x130 feet. All are intended for American Beauties.

R. J. Donovan's was next on the list. He was not at home, and as the shades of night were beginning to appear, only a short call was made. Mr. Donovan has for many years been regarded as one of the best violet growers around Chicago. Violets have done poorly this winter with every one in this vicinity, and Mr. Donovan's among the rest. His carnations are doing well. The usual supply of hydrangeas will be ready for Decoration Day.

J. T. A.

### Pittsburg.

Trade is fairly good, considering that the Lenten season is fully under way and that society has given up the large and numerous social functions that are generally to the front. One or two good days of general trade with the balance of the week just so-so fulfills the conditions now.

Mr. H. Weber, of Weber & Son, Oakland, Md., was a recent visitor, and on Saturday gave a fine exhibit of the hybrid tea pink rose Mrs. Robert Garrett. A large vase of magnificent blooms were placed at Mr. Gus. Ludwig's stand, attracting universal admiration both for form, color and general excellence.

Mr. Ernest Ashley, representing Mr. Henry A. Dreer, Philadelphia, was also with us. He reports trade good.

REGIA.



# EVELINA



Was without a doubt the finest White Carnation at the Carnation Exhibit at Chicago, scoring 94 points, as follows: Color, 15; size, 15; calyx, 14; stem, 15; substance, 10; form, 10; plant, 10; fragrance, 5; scoring full points for color, size, stem, substance, form and plant.

## WARRANTED

To be an extra free and early bloomer; requires no special treatment, and can be well done by any grower of carnations.

## AT BOSTON

This Carnation was exhibited February 26th, and scored after the journey from Cincinnati, 95 points, proving its good quality as a shipper.

## AT CHICAGO

A vase of blooms in first-class condition was staged that were cut January 30th. You make "NO MISTAKE" in giving this sterling variety a trial.

If you have not as yet received my Descriptive and Illustrated Price List of Evelina and other novelties, send me your address and receive it.

Orders booked and filled strictly in rotation for well-rooted cuttings, at.....

\$10.00 per 100; \$22.50 per 250; \$80.00 per 1000;

50 at 100 rate. 500 at 1000 rate.

CASH OR SATISFACTORY REFERENCE, PLEASE.

**R. WITTERSTAETTER, Sedamsville, Ohio.**

Tree Cutting in Boston Parks.

There has been considerable agitation and discussion of late with regard to the thinning of some tree plantations in the public parks of Boston.

"Regarding the petition which Mr. Winslow and other gentlemen presented to the park board at Pine Bank, January 24, asking that the board select advisers from a list of names submitted by them, based on the statement that in the matter in question (the thinning of woods and plantations) 'you rely on your superintendent, who himself does not wish to be wholly responsible,' I beg to say, I have no desire, nor have I expressed any, to be relieved of any responsibility, in this work.

"These statements certainly are not the result of close observation or investigation, as can be proved by present conditions. I am able to say that the intent and purpose of the work that has been done on the plantations and woods were the opposite of those contained in the charges. The work of marking the trees for cutting was done in the summer, when the trees were in full leaf. Consequently, the condition of each tree could be accurately ascertained. Special effort was

made to retain or create pleasing or picturesque groupings. Where trees were being injured by too close crowding, the weak or sickly were marked for cutting. In no case has a single fine tree been sacrificed. All ground cover, shrubbery or undergrowth of native material has been carefully preserved, except possibly in the case of young tree saplings which, for obvious reasons, have all been cut out, leaving only those selected to replace sickly trees or for other requirements.

"It is to be regretted that this work had not been commenced as soon as the lands came into the possession of the park department. Judicious thinning from year to year, with the planting of native shrubs would, ere this, have shown the effect of intelligent effort to assist nature, for nature can be assisted and the evidence of assistance be concealed.

"Hastily considered criticism of the landscape gardener's effort to improve the condition of growing timber by thinning out crowding trees is probably largely to blame for the deplorable condition of the trees in most of our parks

throughout the country. Central Park, New York, contains scarcely one fine specimen of a tree, even in grounds set apart for ornamental work; its woodlands are forests of bare poles. Prospect Park, Brooklyn, still contains hundreds of nurse trees, planted for shelter to the intended permanent trees, which they have smothered and malformed, instead of protecting, because they were not cut out when their intended work was accomplished. Much of the planting will have to be commenced over again, the ruin being irretrievable, and all because of the mistaken sentiment against the cutting of a tree.

"The places from where trees were cut last year cannot now be identified; it is ever found so in forestry, the branches, having more room, spread out, the boles feather out; the general health of the tree is improved; undergrowth is encouraged, having more light. The cutting down this year has even now left little evidence; none will be found in summer except in the greater wealth of verdure and natural beauty."

Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000. Premium—5 Red Wave with every 100 Kathleen Pantlind.

HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

FIREFLY

Bright scarlet and POSITIVELY RUST PROOF. As productive as Scott. Rooted Cuttings Feb. 15th, \$10 per 100, \$75 per 1000. Send for descriptive list of Firefly and fifteen other novelties of '98, fifteen varieties of '97 and older standard sorts.

A RUST PROOF CARNATION FOR BUSINESS.

GEO. HANCOCK & SON, - GRAND HAVEN, MICH

\$100 REWARD

will be paid for any RUST found in our Carnations. All Pure and Healthy. Throw out that old RUSTY Stock, begin anew with clean stock.

WE HAVE NICE ROOTED CUTTINGS, A NO. 1.

Table listing various carnation varieties and their prices, including Meteor, Stuart, Goldfinch, Albertini, Bridemaid, Uncle John, Storm King, Daybreak, and William Scott.

McDONALD & STEELE, 109 S. Washington St., Crawfordsville, Ind.

NATHAN SMITH & SON

Wholesale Florists

Specialties ADRIAN, MICH.

- CHRYSANTHEMUMS
CARNATIONS
AND VIOLETS

CORRESPONDENCE SOLICITED

91 POINTS

New Carnation

ARGYLE

Wins Certificate at Chicago. Don't delay your orders and get left. . . .

Cuttings from sand, \$2.00 per doz.; \$10 per 100; \$75 per 1000.

Twenty-five (\$25) dollars will be offered for the best 50 blooms at November Show held in Chicago.

STOLLERY BROS., ARGYLE PARK, Chicago, Ill.

TELEGRAPH CODE

AM. SEED TRADE ASSOCIATION

AMERICAN FLORIST CO., CHICAGO.

BAKIER'S NEW CARNATIONS.

Grown and tested five years ONEIDA Pure pink healthy, no rust, continuous producer. Largest size bloom. RED JACKET Bright red fine stem and calyx; continuous cropper. \$10.00 per 100.

C. E. HARKER, Utica, N. Y.

April 2...

IS THE DATE OF THE SPECIAL

Easter Number

Cleveland.

The Lenten season so far, continues to be an agreeable surprise. It is true that business tends to show on the average a slight falling off from the first week of Lent, but it is hardly noticeable with most florists, and is not large with any so far as reported. Wholesale prices have shown a slight tendency toward weakening, but this is owing more to the usual spring increase in the supply of stock than to decrease in amount of business. The very noticeable improvement in quality tends also to maintain wholesale prices, while the weather, which at this writing is—and has been for some time—very fine, helps the retailer very materially in disposing of the stock coming in. Bulb stuff, so far this season, has never been in any serious over-supply.

Florists' row on Erie street is pretty well broken up nowadays. E. J. Paddock has moved out and taken a store further down the street. Charles Erhardt moves over on Prospect street in a few days. W. H. Beaumont has rented a store on Bond street, opposite the Hollenden, and fixed it up in fine style. These with Winterfield's establishment, closed some time ago, take four right out of the neighborhood, and leaves C. M. Wagner alone in his glory on the opposite side of the street; and in their place, which shall know them no more, will shortly loom a huge business block.

The advance guard of the Dutch bulb men struck the town the other day in the person of the representative of Van Waveren & Kruyff.

Miss Eadie returned lately from an extended sojourn in Florida, the "land of flowers," which title, according to that lady, is entirely unmerited, so far as florists' flowers are concerned. A.

THE BEST OF THE NEW  
PINK  
CARNATIONS  
**Mrs. Frances Joost.**  
A WINNER EVERYWHERE.  
\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000 Cash with order.  
C. BESOLD, Mineola, L. I., N. Y.

Experiences  
... WITH ...  
**CARNATIONS**  
The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants.  
I Guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.  
ALBERT M. HERR,  
..... LANCASTER, PA.

**Carnations**  
**Chrysanthemums**  
NEW AND STANDARD VARIETIES  
Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address  
H. WEBER & SONS, Oakland, Md.

**NEW GARNATION**  
**"Mrs. S. A. Northway"**

*A soft shell pink, developing to nearly pure white.*

**OUR MASTERPIECE.**

We shall commence shipping soon.

Orders booked **now** and filled in **rotation**. . . .

PRICE: PER 100, \$10.00. \*  
PER 1000, \$75.00.

**Newer Geraniums.**

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2 1/4-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.

**GENERAL LIST OF GERANIUMS.**

A superb stock in quality and variety of all the finest sorts, from 2 1/4-in. pots, named, \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.

**Fuchsias.**

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.

OUR PRICE LIST now ready, contains prices on many other plants.

SEND FOR IT.

**W. P. SIMMONS & CO., Geneva, Ohio.**

**W. P. SIMMONS & CO.**

Make the following statement to the readers of the American Florist.

As originators and introducers of  
"Silver Spray,"  
"Tidal Wave,"  
"Daybreak,"  
and "Rose Queen,"

each of which has, we believe, proven even better than we claimed for them. We NOW say for 1898 that

**"Mrs. S. A. Northway"**

possesses all the good points that go to make up a first-class and profitable cut flower sort, and that we introduce it with even more confidence than we did the others.

- It is an extra strong grower.
- It is free from rust or disease.
- It is a profuse bloomer.
- It has exceedingly strong stiff stems.
- It is of exquisite form full and double.
- The flower is high built, petals serrated.
- The calyx does not burst.
- It is delightfully fragrant (a quality lacking in many new ones.)

PRICE LIST of rooted cuttings of New Carnation  
**GENESEE**  
NOW READY.  
1 dozen or up, prepaid by mail or express.....\$ 1.35  
25 or up (to 100) " " " ..... 10 00 per 100  
100 " purchaser paying charges..... 8.00 per 100  
250 " " " " ..... 7.00 per 100  
500 " " " " ..... 6.75 per 100  
1,000 " " " " ..... 65.00 per 1000  
Descriptive illustrated and priced circular free.  
DAN'L B. LONG, Sales Agent, Buffalo, N. Y.

**SOUTH PARK FLORAL CO., New Castle, Ind.**  
AT THE MEETING OF  
**American Carnation Society**  
WE GOT FIRST PRIZES ON . . . . NOT SO NEW  
**ALBERTINI**  
**HELEN KELLER**  
**ALASKA**  
as some, but the flowers were so fine they attracted a great deal of attention. We have very fine rooted cuttings of the above for sale. Write for prices on them and other varieties.

St. Paul.

The bright warm weather has brought out an abundance of good blooms, the supply being the largest and the quality the best of any time since Christmas.

Trade is good in spite of its being Lent, showing a substantial improvement over previous years. All stock is in good demand, though roses and carnations have the preference.

Retail prices are well maintained though an occasional cut is noticed. The stores are all bright with blooming plants and everything in this line sells well; azaleas sell better than in several years, as do cinerarias, primulas and hyacinths.

Quite a good many roses are being shipped in from Milwaukee and Chicago, which does not speak well for our home growers. If more of our growers would grow roses and less bedding stock, prices would be better all around and profits larger at the end of the season.

L. N. Brant has recently located here as the representative of Brant & Noe, and has disposed of a great many flowers.

E. M. Parmelee, of the Jno. H. Allan Seed Company, Picton, Ont., was a recent caller.

H. Peteler, formerly with Chris. Hanson, will shortly open a retail store on Robert street.

J. Haitomt has discontinued business. Superintendent Nussbanmer, at Como Park, has propagated a large quantity of spring bedding stock and will have them ready for the parks early.

J. C. Vaughan, of Chicago, was a recent caller.

W. G. Bunde, formerly with J. C. Vaughan, has entered the State University. FELIX.

New CARNATIONS.

- WHITE CLOUD—Yellow. GOLD NUGGET—White. NEW YORK (Ward)—Bright cerise pink. MRS. JAMES DEAN (Ward)—Clear silvery pink. JOHN YOUNG (Ward)—White. BON TON (Ward)—Scarlet. Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons).

All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

- MRS. C. H. PEIRCE—Yellow. 3c each, \$1.50 per doz., \$25.00 per 100. SNOW QUEEN—White. 4c each, \$5.00 per doz., \$35.00 per 100. MERRY CHRISTMAS—Late White. 3c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List Ready January, 1898

F. DORNER & SONS CO. FAYETTE, IND.

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS Ready, Feb. 1st and Later

Including Mrs. G. Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Jr., Silver Spray, Emily Pierce, and others. Send for a list of what you want and get prices before you buy. We also have a line of Carnation and Violet blooms for sale. Write for prices. Address:

CHAS. CHADWICK, Lock Box 11. GRAND RAPIDS, MICH.

New CARNATIONS

FOR SPRING OF '98 NOW READY.

- EVELINA, per 1000. \$80. WHITE CLOUD. GOLD NUGGET. MRS. S. A. NORTHWAY. ARGYLE. BON TON.

Price for strong, well-rooted cuttings, per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.

VARIETIES OF 1897

- FLORA HILL..... Strong, rooted cuttings from flats, per doz., 75c; per 100, \$8; per 1000, \$40..... JUBILEE..... MAYOR PINGREE..... MRS. C. H. DUHME..... MORELLO..... VICTOR.....

CALADIUMS, Fancy Leaved, choice bulbs in named sorts, per doz., 75c; per 100, \$12.00.

VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St. 84-86 Randolph St., CHICAGO. Mention American Florist.

Orders Please

All the Leading Carnations Now Ready. Per 100

- Geraniums named, our selection only, 2 1/2-in. \$2.00 Salvia, Clara Bedman, 2 1/2-in. 2.00 Little Gem Feverfew, 2 1/2-in. 2.00 Coleus, 20 best bedders, 2 1/2-in. 1.50 Lycopodium Denticulatum, 2 1/2-in. 2.00 Tradescantia Multicolor, 2 1/2-in. 2.00 Alternanthera Aurea Nana and P. Major, 2 1/2-in. 2.00

SEEDS

Mammoth Verbenas, Asters and Pansies only \$1.00 per oz.

The Morris Floral Co. MORRIS, ILL.

TRANSPLANTED CARNATIONS

- Per 100 Mayor Pingree, 60c per doz. \$4.50 Daybreak, transplanted to soil. 2.00 Scott 1.50 McGowan 1.50 Kohlnoor 1.75 Meteor 2.00 Bridesmaid rooted cuttings. 1.50 Josee Queen, 1.50

All fine healthy and no rust. CHRYSANTHEMUMS

- Kate Washburn, early white; Mrs. Robinson, extra early white; Miss Johnson, extra early yellow; elegant plants, 2 1/2 in. pots, 40c per doz.; \$3.50 per 100; rooted cuttings same 2c each. Salvia "Bonfire," extra fine 1 1/2 in. pots, 25c per doz.; \$2.00 per 100. New Yellow Marguerite, 2-in. pots, 30c per doz.; cuttings, 2c. California Violets, rooted cuttings or clumps. Cash, by express.

GEO. M. BRINKERHOFF, Springfield, Ill.

50,000 Flat-Grown CARNATIONS

- STRONG STOCK. per 100 per 1000 Daybreak..... \$2.00 \$15.00 Scott..... 2.00 15.00 Josee Queen..... 1.50 12.00 Tidal Wave..... 1.50 12.00 Portia..... 1.50 12.00 Rob Roy (new)..... 10.00 Jubilee..... 3.00 Snow Queen..... 10.00 Silver Spray..... 1.50 12.00 L. McGowan..... 1.50 12.00 Eldorado, Meteor..... 2.00 Flora Hill..... 5.00 Triumph, Armazindy..... 3.00 Pluto, new, and Uncle Sam, new, both varieties..... 10.00

Cash with order. HENRY A NIEMEYER, Erie, Pa.

ROOTED CARNATIONS Choicest Stock....

- McGowan, Scott, Tidal Wave, Cartledge \$1.00 per 100, \$8.00 per 1000. Jubilee, Dazzle \$3.00 per 100

ROSES, from Bench or Pots.

Good stock, sure to please. Write for samples and prices. W. H. GULLETT & SONS, Lincoln, Ill.

JUBILEE CARNATIONS. Rooted Cuttings

I have a fine stock of this peerless variety, also most of the leading standard sorts. MARIU LOUISE rooted runners at special low rates. Write for prices. Will exchange for fruit trees.

W. W. COLES, - Kokomo, Ind.

STANDARD VARIETIES

- ALASKA..... Transplanted plants from flats, per doz., 30c; per 100, \$2; per 1000, \$15. DAYBREAK..... LIZZIE MCGOWAN..... MINNIE COOK..... WILLIAM SCOTT..... EMMA WOCHER.....

FLORA HILL

- \$5.00 per 100; \$40.00 per 1000. Bradl..... \$5.00 per 100. Evelina..... Genesee..... Mrs. Frances Joost. Empress..... Painted Lady..... Psyche. Conch Shell..... Wellesley. \$2.00 per doz., \$10.00 per 100. Jubilee..... \$3.50 per 100; \$30.00 per 1000. Pingree..... 5.00 per 100. Victor..... 4.00 per 100. McBarney..... 5.00 per 100. Maogold Nivea..... E. Foster \$3.00 per 100; \$25.00 per 1000. Triumph Armazindy. \$2.50 per 100; \$20.00 per 1000. Daybreak Eldorado Meteor Bridesmaid \$2.00 per 100; \$15.00 per 1000. Alaska Scott McGowan \$1.50 per 100, \$12.00 per 1000. 25 at 100 rates. Special price on 5000 or more.

NEW ROSE MRS. ROBT. CARRETT..... \$3.50 per doz.; \$25.00 per 100.

250 BOXES 16x24 CLASS FOR SALE. One of a Hundred Similar Letters:

1240 Smith St., PROVIDENCE, R. I., Feb. 7, '98.

H. F. LITTLEFIELD. Dear Sir:—I must admit the Flora Hill cuttings were the best I ever had from anyone; all well-rooted pips. If we could get such stock from everyone it would be a pleasure to try new ones. Yours truly JOHN MACRAE.

H. F. LITTLEFIELD, WORCESTER, MASS.

NEW CARNATION....

The largest, bright rich crimson yet introduced.... Empress

Send for price list of above. New and Standard Sorts....

WM. SWAYNE, Box 226, Kennett Square, Pa.

40,000 TRANSPLANTED CARNATIONS

- STRONG HEALTHY PLANTS. Daybreak, Sc. H. Rose Queen, H. Keller, Harrison's White, \$1.75 per 100 or \$15.00 per 1000; Th. Nina Cartledge, Lizzie McGowan, \$1.25 per 100, \$10.00 per 1000. CHRYSANTHEMUMS, 2 1/2-in. pots. Major Bonnard, \$2.50 per 100 or \$15.00 per 1000. President Smith, Eda Trass, \$2.00 per 100 or \$15.00 per 1000. VIOLETS, Marie Louise, 75c per 100 or \$5 per 1000. CERANIUMS, mixed varieties, good strong plants, 3 1/2 in. pots, showing flowers, \$3.00 per 100 or \$30.00 per 1000. 2 1/2-in. pots, \$2.00 per 100 or \$15.00 per 1000. Cash with order or satisfactory reference.

PAXTON GREENHOUSES, C. E. Taube, Prop. Horriehurg, Pa.

ROOTED CUTTINGS

- Armazindy..... \$2.50 per 100 Mrs. Fisher, \$8.00 per 1000..... 1.00 per 100 Wm. Scott, \$10.00 per 1000..... 1.00 per 100 Sweet Alyssum..... .75 per 100

CASH WITH ORDER. FRANK W. POORE, - Haverhill, Mass.

WEST ISLIP GREENHOUSES. CARNATIONS. Rooted Cuttings

- Scott, Portia, McGowan, \$1.00 per 100, \$8.00 per 1000. Daybreak, \$1.50 per 100. Mixed geraniums, from flats, strong plants \$15.00 per 1000. Mixed Cammies, dry roots of the following sorts: Alphonse Bouvier, Mme. Crozy, Chas. Henderson, Queen Charlotte, Burbank, John White, etc., \$2.50 per 100. Cash with order.

E. B. SUTTON, Jr., Babylon, L. I.

Please mention the American Florist

# 5000 GARDENIA FLORIDA

(CAPE JASMINE.)

3-inch pots, 8-10 inches high, \$8 per 100; \$70 per 1000.  
**25,000 Canas**, dormant roots, in 20 best sorts, \$20 per 1000.  
**Latala Borbonica**, 4-inch pots, 1-2 choice leaves, 12-15 in., \$15 per 100.  
**Latala Borbonica** 4-inch pots, 2-3 choice leaves, 15-18 in., \$30 per 100.  
**Phoenix Reclinata**, 4 inch pots, 12-15 in., \$15 per 100.  
**Phoenix Reclinata**, 4-inch pots, 15-18 in., \$25 per 100.  
**Oranges**, best sorts, grafted, 4-inch pots, 10-12 in., \$20 per 100; 5-inch pots, 18-20 in., \$30 per 100.

**P. J. BERCKMANS, Augusta, Ga.**

# PELARGONIUMS

JUST the thing for Easter. Large specimen plants for 6 and 8-inch pots, just showing buds, 20c each; \$2 per doz. 2 1/2-inch pot plants at \$4 per 100; such as **Mabel, Mme. Vibert** and others. Order at once as they are going out fast.

**A. C. LAMPRECHT**  
 ASHLAND, OHIO.

# GERANIUMS

that will please you and prices that will suit you

S. A. Nutt, LaFavorite, Heteranthe, \$2.50 per 100; \$20.00 per 1000; Beante Poitevine, Mary Hill, \$3.00 per 100; Mme. Bruant, Frances Perkins, \$5.00 per 100. 10 varieties Coleus, 4 varieties Carnations, 2 varieties Ageratum. Prices upon application.

**H. R. CARLTON, Willoughby, O.**

## MARCH OFFER

Alternanthera A. Nana, \$1.75; P. Major,.....	Per 100	\$2.00
Begonias, 5 var. and Vernon.....		2.50
Coleus and Centaurea Gymnocarpa.....		2.00
Geraniums, 2 1/2-in. pots, \$2.50; 3-in. pots.....		3.75
Marguerite (Paris Daisy) 4-in. pots.....		4.00
Pansy plants, 1000, \$9.00.....		1.00

CASH WITH ORDER.

**JOS. H. CUNNINGHAM, - Delaware, Ohio.**

# CHRYSANTHEMUMS

Here is a chance to get the best standard varieties, extra strong plants, extra cheap. **Only \$2.25 per 100.** 2 1/2 and 3-in. stock; or will exchange for Jubilee, Victor or Flora Hill carnations.

**F. WM. HECKENKAMP, Jr.,**

6th Ave. and Adams St., - QUINCY, ILL.

**The Cottage Gardens**  
 QUEENS, L.I.  
 Specialties in **CARNATIONS, CHRYSANTHEMUMS,**  
**CANNAS, GERANIUMS, DAHLIAS.**  
 SEND FOR OUR PRICE LIST

# PANSIES

The Jennings Strain of Finest Mixed Pansies... Medium size, \$5 per 1000 express; 75c per 100 by mail. Seed of above, \$1 per packet; \$6 per ounce. **Aster Seed**, Semplo's pink, \$1.50 per ounce. Large Pansies in bloom, ready March 20th. Cash with order.

**E. B. JENNINGS, Southport, Conn.**

Lock Box 254. Grower of the Finest Pansies.

THERE WE ARE AGAIN.\*\*\*

# VIOLETS, MARIE LOUISE.

Rooted Runners, \$4.00 per 1000; daily pick of blooms 10,000. Largest grower of Marie Louise Violets, winner of the largest prize ever offered for Violets, Madison Square Garden, New York City. Cash with all orders.

**GEO. T. SCHUNEMAN, Blue Point, L. I., N. Y.**

# 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.

**NO RUST OR MILDEW.**

**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**  
 We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

**J. L. DILLON, Bloomsburg, Pa.**

## VERBENAS.

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$20.00. **New Yellow Marguerite** finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

**SOUTH SIDE FLORAL CO., Springfield, Ill.**

# VERBENAS

ROOTED CUTTINGS. WELL ROOTED.

Crimson Bedder, Candidate, Mrs. J. C. Vaughan, Fire Ball, Lavender, Swayne's Beauty, Francis, Perl, Pink Beauty, Aurora Borealis, Negro, Miss Arthur, Willie Desmond, Mrs. Cleveland, 15c per doz; 70c per 100; \$6.00 per 1000. All nice clean stuff. Express paid.

**S. T. DANLEY, Macomb, Ills.**

# AZALEA INDICA

We have an immense stock of all the best varieties; well set with buds; large plants, 12 to 15-inch, \$6.00 per doz.; \$45 per 100.

# PANSIES

We grow over a million from the choicest seed of Bugnot, Cassier, Odier and Trimaudean; transplanted in cold frames; 60c per 100; \$4.00 per 1000.

# HARRISII LILIES

In bud, guaranteed right for Easter; 10c per bud.

# CINERARIAS

In bud and bloom, \$1.00 per doz.

# ROOTED CUTTINGS

Mammoth Verbenas.....	100	1000
Double Petunia.....	\$ .70	\$5.50
Heliotrope.....	1.00	
Ageratum.....	.75	
	.50	

Double Golden Dwarf Marguerite, \$1.00 per 100.

# PLANTS 2 1/4-inch.

Double Geraniums.....	\$2.00 per 100
Vinca Variegata.....	2.00 per 100

## WHITTON & SONS,

Wholesale Florists,  
 City and Green Sts., - UTICA, N. Y.

# GREEN AS GRASS.

## MAMMOTH VERBENAS

Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6.00. Cash with order.

**FRANK S. PAYNE, Barnard Crossing, N. Y.**

## FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

**M. B. FAXON,**

Lock Box 1528, BOSTON, MASS.

Correspondence solicited.

# SPECIALTIES

IN BEST VARIETIES.

**ROSES**, from 3-inch pots.

**CARNATIONS**, for fall delivery.

**CHRYSANTHEMUMS.**

**SMILAX.**

**VIOLETS.**

Prices low. Send for list.

**WOOD BROTHERS, FISHKILL, N. Y.**

# CLEMATIS

Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00  
**H. P. Roses** Strong, 2 and 3 years own roots.....\$1.50 \$10.00  
**RED JACKET GOOSEBERRY**, only large native red..... .75 \$4.00  
**DOWNING**, best for general crop, special prices.

**PAEONIES**, fine ass't of colors and kinds \$1.25 \$8.00  
**SMILAX**, extra strong plants..... \$2.50

**F. A. BALLER, Bloomington, Ill.**

# KLONDIKE

Cold Fields at Your Door.

**COLEUS**—All kinds, all grades and all prices. Verschaffelli and Queen, 75c per 100; \$6.00 per 1000; 2 1/2-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 50c per 100; \$4.50 per 1000; 2 1/2-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 1000; \$1.50 per 100. Double Petunias, extra fine strain for flats, \$1.50 per 100; \$12.00 per 1000. Anthems Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$15.00 per 1000; 2 1/2-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 4 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychoides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2 1/2-inch pot, \$5.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2 1/2-inch pots, \$2.50 per 100; Mme. Sallerol, for flats, \$1.25 per 100; \$10.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000.

The above are rooted cuttings, except where noted. Cash with the order.

**J. E. FELTHOUSEN, Schenectady, N. Y.**

# CARNATIONS

AND

# COLEUS

## ROOTED CUTTINGS

THE 1898 INTRODUCTIONS

THE 1897 INTRODUCTIONS

**DAYBREAK** of special quality.

**ROOTED COLEUS** in variety.

Good stock only. Price list free.

**DAN'L B. LONG, Growers' Agent,**  
 BUFFALO.

## 5,000 SMILAX...

From flats, by mail, 50c per 100, \$4.00 per 1000  
 From 2-inch pots, \$1.50 per 100, \$13.00 per 1000  
 From 3-inch pots..... \$3.00 per 100  
 Send for samples. Cash with the order.

**FRED BOERNER, Cape May City, N. J.**

## WHY NOT.....

Advertise and sell some rooted cuttings or other surplus stock.

**THIS SIZE "AD." ONLY \$1.00.**

AMERICAN FLORIST CO., CHICAGO.

# LETTUCE AND OTHER...

## VEGETABLE PLANTS

**LETTUCE**—Big Boston, Boston Market, Tenn. Ball, Grand Rapids and Reicher's Forcing, 15 ct per 100; \$1.00 per 1000.

**TOMATO, CABBAGE and CELERY**—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.

**CAULIFLOWER, Snowball**—35 cts per 100; \$3.5 per 1000; if by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

**R. VINCENT, Jr. & SON, White Marsh, Md.**

Cincinnati.

TRADE SLOW.—STOCK INCREASING.—DISEASED HARRISII LILIES.—PERSONAL MENTION.

Since the beginning of last week the demand has dropped from 15% to 25%, with a considerable increase in supply. Roses and carnations, although more plentiful, are moving fairly well, but bulbous flowers are beginning to accumulate in the wholesale houses, and prices will drop accordingly. Harrisii lilies are now bothering the growers on account of the disease; some growers report a loss of 50%; judging from present indications, they will not be as plentiful for Easter as heretofore.

There was nothing rare or novel in the line of flowering plants at the Sixth street market Saturday. A collection of uniform high grade cinerarias was seen at Mr. Joe Linnfoot's stand, which he tells me find a ready sale. Mr. Fred. Walz had some well grown azaleas, ranging from fifteen to twenty inches across at his stand. Tulips and hyacinths in pots seem to lose their popularity; they are moving very slowly.

Mr. Gus Adrian has been confined to his room the past week with La Grippe.

Mr. J. MacRorie, of the W. A. Manda, South Orange Nursery, is widely known among Cincinnatians outside his professional calling. He is one of the jolliest fellows on the road. Mr. MacRorie's friends here are legion, and he was around town Monday renewing old acquaintances.

H. SCHWARZ.

There is trouble between Park Superintendent Warden and Gardener Carsten. A series of disagreements are said to have culminated in a personal encounter between the two. Mr. Carsten subsequently made formal charges of a sensational character to the Board of Administration. An investigating committee has been appointed and the matter has been investigated. There is said to be, as in many other cities, altogether too much politics in the Cincinnati park affairs.

X.

Plant Shipments to Michigan.

UNITED STATES EXPRESS COMPANY AND PACIFIC EXPRESS COMPANY.

ED. AM. FLORIST:—The matter of shipments of plants, etc., for Michigan points has been referred to the vice-president and general manager of the U. S. Express Co. and to Mr. E. M. Morsman, president of Pacific Express Co. I have received reply from Mr. Crosby, vice-president and general manager, advising that in his next circular he will issue new instructions conforming to the interpretation of the law by the Michigan state officials.

President Morsman, of the Pacific Express, advises me that he will modify his instructions excepting "greenhouse plants and cut flowers" in his next circular.

A. WYGANI, General Agent.

AMERICAN EXPRESS COMPANY.

ED. AMERICAN FLORIST:—In receipt of your favor of March 8, with clipping enclosed upon the subject of the Michigan state law regarding transportation of trees, shrubs, plants and vines, and have instructed that in our next tariff department circular the attention of agents be called to the fact that this law does not apply to shipments of greenhouse plants or cut flowers. Thanking you for calling our attention to the matter, I am

Yours truly, A. ANTISDEL.



IMPORTERS

JAPANESE PLANTS, BULBS, ETC.

At lowest prices. Small orders filled from experimental garden Columbia Road Dorchester, Mass. Wholesale catalogue, 1888 free to the trade.

JAPANESE NURSERY,

Office: 272 Boylston St., BOSTON, MASS.



Large Field-Grown Roots in all the Leading Varieties \$5.00 to \$7.00 per 100.

30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue of novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Dahlia Specialist, Box 382, Denver, Colo.

PEACOCK'S PRIZE WINNING DAHLIAS

Did you know that in 1896 Peacock's Dahlias were awarded sixteen (16) first prizes at Philadelphia out of seventeen entries? And at the American Institute, Madison Square Garden, New York, the seven first prizes (all that were offered) and two special diplomas for Clifford W. Bruton and Wm. Agnew? That last year (1897) at New York, they were awarded six of the seven first prizes and The Medal of Superiority of the American Institute, the highest award ever given Dahlias in America? That at Philadelphia—well, we won't say anything, as they were not in competition; but, read what the Philadelphia Record of Sept. 22, 1897, says:

"Prominent above all the other exhibits is that of the Dahlia Society itself. It includes an almost perfect assortment of all the Dahlias known in this country, grown by W. P. Peacock, of Atco, N. J., but it was not in competition for prizes.

New Illustrated Descriptive Wholesale Catalogue now ready; send for it before placing order elsewhere.

W. P. PEACOCK, ATCO, N. J.

Mention American Florist.

Two Great Sports

CARNATION

VICTOR

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth. Rooted cuttings now ready. \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

CHRYSANTHEMUM

PENNSYLVANIA

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$55.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

"BOSS" Chrysanthemums WM. H. CHADWICK—the grandest white novelty of the season. THE YELLOW FELLOW Winner of \$100 Stearns bicycle prize. MADELINE PRATT—"As pretty as her picture."

Distributed March 1st by leading firms and the grower,..... Grove P. Rawson, Elmira, N. Y.

Jardinieres, Pots AND Pedestals



ADAPTED TO

Florists' Use.

Artistic Shapes and Decorations.

Illustrations

Write us for Illustrations and Prices....

BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.



**Palm Notes.**

Throughout the dark months, namely November, December and January, our ordinary trade species of palms require little or no shading, with the possible exception of *Cocos Weddeliana* and *Livistona rotundifolia*, these two keeping in better color with some shade during the whole year. But with *Jatamias*, *Kentias*, *arecas* and *phoenix* we find it a good practice to allow the shading to thin off to some extent by the latter part of September, and this, with the admission of plenty of fresh air, produces foliage of the firm texture that gives satisfaction to the purchaser.

As the sun becomes quite strong by the middle of February, the necessity arises for some protection, and the first application of shading is made on the west side of the houses, leaving the east side bare for two or three weeks longer, the complete shading of the houses depending on the condition of the weather and forwardness of the season. Like many other operations in our business, it is impossible to lay down hard and fast rules for shading, and much depends on the watchfulness of the grower, for when the shading is omitted at the right time there will surely be found some unsightly streaks burned across the best leaves in the house, owing to the fact that there is seldom a house constructed that does not include some defective glass in its roof.

As to the material for shading there is no room for choice, but in all probability the cheapest material for this purpose is ordinary whitewash, and during the hot weather this seems to keep the houses cooler than any other preparation that I have used. The great disadvantage in the use of lime for shading, however, is found in its action on the paint and putty, the latter being speedily eaten away by the lime. White lead and naphtha and white lead and kerosene have also been largely used, and are still in high favor with many growers, and a cold water paint known as "Indurine" gives good results, though the first cost is high.

The matter of repotting also demands attention at this time, for palms in general start into active growth quite early in the year. Well-rooted young stock should be potted first, for in many cases there is a less marked period of rest in young plants than is noted in more mature specimens, and providing an even growing temperature and proper condition of moisture be maintained there is little risk in repotting young stock at almost any season of the year. Large specimens may profitably be left alone in regard to potting until after March 1, and they will then take hold of the new compost at once, and should go ahead rapidly up to November 1 under reasonable treatment. Just before repotting is a good time for a thorough cleaning of the large specimens referred to, for it is an unfortunate fact that most of us find insects on our palms at some period of our experience, notwithstanding the application of the various species that have been heralded with much enthusiasm and great quantities of printer's ink. While this cleaning operation is going on it is a good plan to give a coat of whitewash to walls, benches, partitions, and in fact to all portions of the house to which such an application is adapted. The latter portion of winter and early spring is a favorable time for an outbreak of red spider in the palm house, owing to the fact that strong fire heat at night and bright sunshine in the day are liable to dry the atmosphere to a degree favorable for this

insect, and as a measure of prevention forcible syringing should be the order for every bright day, directing the stream of water on both upper and lower surfaces of the leaves, the red spider being somewhat impartial as to the location of its attacks. Yellow thrips also appear in the palm house at times, often injuring the young foliage before the presence of the insect has been noted, and for this trouble there is nothing better than tobacco applied either by fumigation or vaporizing.

Returning to the subject of potting, it may be taken as a safe rule to pot all palms firmly, there being no fear of retarding the root growth by thus firming the soil, and in the case of those plants that are intended to be taken out for decorating it is especially necessary that they be well potted, else they soon shake loose in the pots and the roots suffer from exposure to the air. Root pruning is sometimes practiced with this class of plants when the pots have reached an inconvenient size and the old compost is exhausted, and providing proper care is

given the plants after the operation there is but little risk to strong growing species, but it is safest not to use this method too early in the season, and to give a little extra shade and keep the house somewhat close for a few weeks afterward.

Of course it will be understood that in an establishment where the amount of glass does not allow a whole house to be devoted to palms there must necessarily be modifications in the methods of culture, and it may be needful to postpone some of this work until later in the season, after the rush of Easter business and spring trade is past, when both space and time should be found for the annual clean-up.

For the benefit of the less experienced (though we all be learners), a word of warning may be added in regard to high-pressure cultivation, that is by means of the hot-bed system and quantities of liquid manure, and this warning may be summed up in one word—*Don't*. What is gained in time is usually lost in quality by hard forcing, and it is quality that counts in the long run. W. H. TAPLIN.

**NEW FORCING ROSE  
MRS. ROBT. GARRETT**

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

**ROSES...**

PERLES.....	} Pots 100	Pots 100		
METEORS.....				
BRIDESMAID.....				
BRIDE.....				
	2 1/2	\$2.50	3	\$3.50

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

**Potted Roses and...  
Cuttings of All Kinds**

Same of Carnations.

Send 50¢ for samples and prices. Fine Smilax in 2-inch pots. Geraniums in 2 and 3-inch pots.

**GEO. A. KUHLE, Pekin, Ill.**

**New American Rose  
MRS. ROBERT GARRETT**

As one of the syndicate holding stock in this rose we offer first class plants, from 2 1/2-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

**AMERICAN ROSE CO.  
WASHINGTON, D. C.**

**300,000 YOUNG ROSES 300,000**

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers.

Send for prices.

**The National Plant Company, Dayton, Ohio.**

**...ROOTED ROSES CUTTINGS**

No scrub wood used. All stock thoroughly rooted and carefully packed when sent out. Send for samples...	Per 100	Per 1000	From 2 1/2-inch Pots	
			Per 100	Per 1000
AMERICAN BEAUTIES, Rooted Cuttings...	\$2.50	\$22.00	\$4.00	\$35.00
BRIDES.....	1.50	12.50	2.25	20.00
BRIDESMAID.....	1.50	12.50	2.25	20.00
METEOR.....	1.50	12.50	2.25	20.00
KAISERIN.....	1.50	12.50	2.25	20.00
PERLE.....	1.50	12.50	2.25	20.00

Terms cash with order. Plants from 2 1/2-inch pots ready now.

**J. A. BUDLONG, - STATION X, CHICAGO, ILL.**

**New Rose Clara Watson**

Clear flesh pink shaded with salmon at the base, one of the finest roses of recent introduction. Extra strong plants \$8.00 per 100.

**PRESIDENT CARNOT.** Those who have not tried it should do so. \$6.00 per 100.

All the standard forcing kinds in A1 stock at prices as low as it is possible to produce really good stock for, *Bridesmaid, Bon Silene, Catherine Mermet, Madame Hoste, Mrs. Pierpont Morgan, Perle, Sunset, The Bride, American Beauty, Madame Caroline Testout, Meteor and Souv. de Wootton.* Also Hybrids for forcing and summer bedding.

**JOHN N. MAY, Summit, New Jersey.**



Rochester, N. Y.

TRADE QUIET.—FLOWERS PLENTIFUL.—PRICES UNSTEADY.—EASTER PREPARATIONS.—A NEW STORE.—BUSY BULB AGENTS.

Business is inclined to be quiet and slower than it has been; flowers of all kinds are decidedly more plentiful now, and prices are not so steady as formerly. Our storemen are only moderately busy, principally with the usual funeral work. For the first time this winter an over-supply of roses arrived in town; not all of this could be used up, though no high grades were left over at any time; tulips, narcissus and hyacinths are almost getting to be a glut in the market, but for the last few days less of them are coming in; carnations are usually cleaned up every day, and few violets remain unsold in the commission man's hands.

Easter stock is coming in in good shape; azaleas, with few exceptions, have kept splendidly in spite of the unusual mild winter; genistas are not too forward yet; rhododendrons and kalmias seem to be just in time, and the metrosideros, in the few places where they are grown have stretched out their buds wonderfully within the last two weeks; hybrid roses are growing fast; cinerarias, daisies and spiraeas will be plentiful; some excellent late cyclamen will surely be in the market, and we have just found out that quite a number of good sized Agathæa cœlestis have been retarded in one place so as to bring out their first flowers shortly before Easter week. The only anxiety seems to be about blooming the lilies; some of these are too forward, apparently ready to burst open in a few days; others do not come on fast enough, and require all the extra heat that can be furnished; hydrangeas too are a little behind in several places, but with the bright and moderate weather four weeks will help considerably to develop and color up the flower heads. Lilacs and other shrubs are so easily managed that nobody has any trouble in getting them just right; stock of these is more abundant this year than ever before, and we shall be surprised if all of it can be disposed of. All our growers have prepared for a largely increased demand in Easter plants.

A bench of trailing arbutus (*Epigrea repens*) in one of W. King's houses is attracting universal attention; the plants are now in bloom and give promise of continuing for some time to come.

Another florist's store is to be opened here in a few days; John Dobbertin is after his share of down town traffic.

Mrs. F. Schlegel is not yet able to be out, but is regaining her usual strength.

Bulb agents, too numerous to mention separately, arrive in town every day.

J. B. K.

The Nurserymen's Convention.

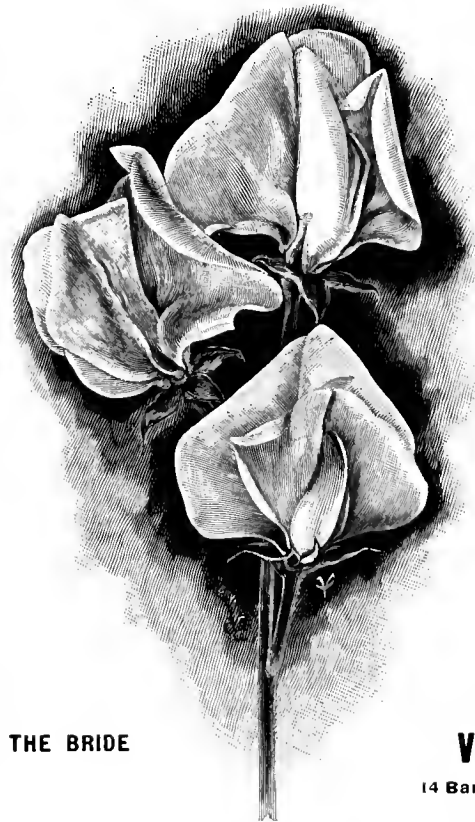
It is expected that between 300 and 400 members of the American Nurserymen's Association will attend the convention to be held in Omaha, June 7, 8 and 9. Arrangements have been perfected by correspondence between the national secretary, George C. Seager of Rochester, and Prof. Taylor, superintendent of the bureau of agriculture, etc. President Wattles will deliver the address of welcome, and an address will also be delivered by Prof. Taylor.

NEW SWEET PEA

...The

BRIDE

Originated by M. Lynch, Menlo Park, Calif.



THE BRIDE

THE BRIDE

This beautiful large, white-seeded variety is the best White Sweet Pea to date. It is a pure white selection from Mrs. Eckford and is the strongest germinator among all the white-seeded varieties—so often poor growers. Grown for the cut-flower market of San Francisco in competition with the other high class whites, it has brought the highest figures ever there all, taking first rank among all the whites. The flowers are pure white of fine substance, large and of true grandiflora type. Beside this every seed will grow. Perfect flowers were cut as early as April 16 last year. Price, per lb., \$2.00; 1-4 lb., 60c; oz., 20c; pkt., 10c.

The Cornell Bulletin in naming the best Sweet Peas of each color, classes The Bride first as a white, with Emily Henderson second and Blanche Burpee third.

Frank Pelleano, a leading florist of San Francisco, stated: "We can sell more Bride Sweet Pea blooms than those of any other variety which we have ever handled."

Prof. Tracy, in a recent review of some of the newer Sweet Peas says: "The especial merit of this variety (The Bride) is in its length, strength and grace of flower stem, and the disposition of the blooms thereon, being one of our best sorts in these respects, and forming an exceedingly graceful bunch."

Mr. Lynch has sent us his entire stock which we offer to the trade as above.

VAUGHAN'S SEED STORE,

14 Barclay St., NEW YORK.

84 & 86 Randolph St., CHICAGO.

THE AMERICAN FLORIST COMPANY'S  
NEW DIRECTORY

(SIXTH EDITION—1898)

Of Florists, Seedsmen and Nurserymen to which are added lists of Parks, Park Superintendents and Cemeteries. A complete list of all persons in the above trades in the United States and Canada, by towns; also a complete list of the same names, alphabetically arranged. ❀ ❀ ❀

PRICE, TWO DOLLARS.

AMERICAN FLORIST COMPANY,

324 Dearborn Street, CHICAGO.

Syracuse, N. Y.

Nobody ever regrets going out to Quinlan & Co's houses on Genesee street, even if the time for a visit be short. "Bobby Bard," who has the whole say about the flower growing houses, always shows something interesting and fine. His beliefs and methods might, in some respects, be considered next to eccentric, as where else to-day can be seen entire houses devoted to Hoste and Gontier roses? "Laugh at it you may," Bobby says, "we continue to grow them because there is money in it for us, while Niphetos I never succeed with, easy as it grows for many."

Emily Pierson made a highly satisfactory record in red carnations this winter as regards quality of blooms and prolific growth; also Nivea in white. A house of some thousands of L. Harrisii seems timed just right for Easter with little disease showing.

L. E. Marquisee has his new store on South Salina street in active business order. At his greenhouses, his special pride, and merited evidently, there is a seedling carnation, a veritable Albertini in form and stem but deeper colored and highly prolific. Some other seedlings also look promising, but not really so flattering as this.

Mr. Wheadon, the polite manager at Quinlan's store, stated that a good business had been done all winter.

Henry Burt does not complain of business.

Henry Morris is now happily located in a prominent Genesee street store, not large in size but still reaching through to Railroad street, and thus fronting on two busy thoroughfares, a location promising for a lucrative business.

L. B.

TRAVERSE CITY, MICH.—Charles Gunton will go into the florist business in a short time, he having leased the property formerly known as the West Side Greenhouses.



**GREEN-HOUSE HEATING.**  
**MYERS & CO.**  
1518 & 1520 S. 9th St.  
PHILADELPHIA.  
Send for catalogue and price list.

**NEW & SECOND-HAND MATERIAL,**  
purchased from Shortt, Goodwin, and Associates, sales at less than one-half prices. Pipe and Fittings Home Florists Wire Hot Water Heaters Greenhouse Boilers and Engine Boor Light Wrought Iron Pipe, Glass Sash and thousands of other articles, for sale by  
**CHICAGO HOUSE WRECKING CO.**  
Largest Mail Order Depot for New and Second Hand Material in the World  
**W. 35TH & IRON STS., CHICAGO.**  
Write for our free illustrated catalogue



**EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS**  
MADE BY  
**QUAKER CITY MACHINE WORKS**  
PHILADELPHIA, PA.

**DON'T SYRINGE WITH COLD WATER.**

It lowers the vitality of your stock, but write for particulars of my tempering Apparatus.

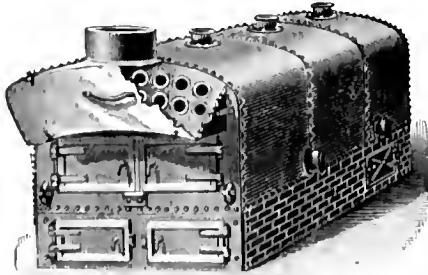
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**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
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AND OTHER BUILDING MATERIAL.  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
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**HOT BED SASH**  
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OF ANY DESCRIPTION.  
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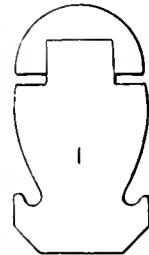
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For GREENHOUSES.  
See our Catalogue. . . .  
Steam and Hot Water  
**Giblin & Co., Utica, N. Y.**

Established 1850....

**THOS. W. WEATHERED'S SON**

**HORTICULTURAL ARCHITECT AND BUILDER.**

Greenhouse Wood-work.  
Greenhouse Iron-work.



Red Gulf Cypress free from Sap.

Get my prices on everything needful for the erection or repairing of Greenhouses.

**U** Should write me your wants for everything entering into the building, heating or ventilating of greenhouses as well as Unions for pipes and Universal Joints for ventilating apparatus.  
**V** ENTILATION—I would call attention to my Patent Arm. It is so constructed that it cannot slip when once tightened up by the bolts, and, instead of the old-fashioned solid eye, which depends on a single set screw and is



continually slipping, we use an open eye fastened by two bolts. There are three grips in the eye, running parallel with the shaft, which, when screwed down by the bolts, binds on the shaft like a pair of pipe tongs and cannot possibly slip, for the more strain put upon it the tighter it will bind. By using the open eye a broken arm can be very easily replaced, whereas with the solid eye the shaft must be taken down to slip the new arm in place. Valves also from the smallest for water pipe to the largest four inch for heating purposes.

**W** EATHERED can and will cheerfully help you out of any difficulties you may have in the construction or heating of your houses. WOOD—I use is of red gulf cypress tree from sap. If you are in want of pipe for water or any other purpose get my figures.

**X** CEL—I try to in everything, especially in heating, building and ventilating apparatus, but don't forget I can supply you everything except masonry material.

**Y** S of wrought iron or heavy cast iron for every purpose. Write me your wants and they will receive careful and prompt attention.

**Z** —I don't keep in stock but if you want it very badly I will try and get it for you.

**THOS. W. WEATHERED'S SON,**  
141 Center St., New York.

**Credit Conditions Printed on Invoices Do Not Bind.**

Two very startling legal decisions have recently been rendered. In one the St. Louis court of appeals is reported as holding that when it is the custom of the trade that a sale made by a traveling salesman of his principal's goods may be rejected by the house on account of the unsatisfactory commercial standing of the purchaser, such a right is in the nature of an option, which must be exercised within a reasonable time after the order for the goods is received, and if not so exercised the contract of sale becomes absolute. Such option to reject the order or sale on account of the unsatisfactory commercial standing of the purchaser does not carry with it the right to repudiate the sale for any other reason or for no reason at all, as, for example, for the reason that the goods were sold below their value and the time of payment extended beyond the limit of private instructions. The principles here announced will readily be seen to be of the utmost importance to the commercial world in their immediate application, but their effect does not stop there.

Something of the same doctrine seems to be recognized by the supreme court of Montana in a recent case. It seems that on May 27 a salesman in the employ of a dry goods company named called upon a Helena firm. His duties were, as he testified, to sell his house's product to the retail trade by soliciting and sending to the house orders for their approval and filling. On that date he took four orders from that one firm. The goods were to be shipped in August and September, with "dating" of November 1, or perhaps, on part, of October 1, and terms of 60 and 90 days. The orders were filled.

Preceding the shipment of the goods, however, the wholesale house sent the Helena firm bills or invoices of the merchandise. Upon these billheads or invoices there was, among other printed matter, the following: "All bills become due when parties suspend payment, assign, or sell out. All goods dated ahead are merely consigned and subject to replevin until said dating has expired. Retention of goods will be considered acceptance of all the terms hereon." Shortly after the receipt of the goods and invoices mentioned the firm made an assignment for the benefit of its creditors, and, naturally, the wholesale house sought to enforce the conditions printed on its invoices. One of the firm to which the goods were shipped denied that he had ever noticed this printed matter on the invoices prior to the assignment. His partner, however, conceded that he was aware of it.

No question was raised as to the authority of the salesman to bind his house, and, from his own testimony, the court says it cannot in any manner be inferred that the goods ordered through him by the above firm were to be received on consignment. Nor does it think that it can be inferred from the evidence that there was any modification of the original contract entered into. It says that if, when the house received the orders from its traveling salesman, it had seen fit to make the ordering firm agree to the terms as printed on the invoices, it should have done so before shipping the goods. But, having shipped them under one contract, it had no right, on its own motion, to modify the terms thereof.

J. L. ROSENBERGER.

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# Kraft's Plant Tonic

For PLANTS, PALMS and FLOWERS

...A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale...

This is one of the greatest preparations for the use of Florists and Plant Growers ever compounded. It gives to the foliage of plants treated the bright, fresh color of healthy, growing vegetation. It destroys all insect life infecting the plant and eradicates scale.

Besides improving the color of the plant, it effects a general betterment of its condition, aiding nature in disseminating and retaining the sap and life of the plant. The Tonic makes the foliage of the plant soft and pliable, and a beautiful bright green.

**For sale at** \_\_\_\_\_ **Price per bottle, 25 cents.**  
 84 & 86 RANDOLPH STREET, CHICAGO. **VAUGHAN'S SEED STORE,** 14 BARCLAY STREET, NEW YORK.

## Jadoo Fibre and Jadoo Liquid

are to-day being sold by the leading SEED HOUSES and are used by prominent GROWERS and FLORISTS.

**You Cannot Afford to Grow Plants Without Them**

Send for particulars and be convinced

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When writing mention American Florist.

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A COMPLETE AND NATURAL FERTILIZER FOR . . . .

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SOLUBLE, QUICK TO ACT, PLEASANT TO HANDLE.

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IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABCURA DIP CO. CHICAGO.

**Kill AND SAVE the BLOOMS! Bugs! QUICKLY DOES IT.**

Mention American Florist.

## HAMMOND'S TOBACCO EXTRACT.

THE OLD ORIGINAL.

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 OLD TOWN FARM GREENHOUSES,  
 COR. SARGEANT & ALTWOOD STS.,  
 Hammond's Paint & Slug Shot Works, Fishkill-on-Hudson, N. Y. — HARTFORD, CONN., JUD. 25, 1898.

Gents. — I send check for amount of enclosed bill, and think I shall need more of the Tobacco Extract for further trial. So far as can be judged it is the best extract I ever had. Let it come by freight at once, as we have two houses longing for a dose.  
 Yours truly, GEO. S. OSBORN.

SOLD BY WHOLESALE SEEDSMEN.

<p><b>PURE BONE FLOUR.</b></p> <p>Ammonia.....14.85¢                  Bone Phosphate.....4¢                  Bone Phosphate.....5¢</p>	<p><b>PURE DRIED BLOOD.</b></p>
<p>Send for prices and references.</p>	
<p><b>GEO. S. BARTLETT,</b> CINCINNATI, O.</p>	<p>SUCCESSOR TO <b>Cin'ti Desiccating Co.</b></p>
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INDISPENSABLE

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## THE AMERICAN FLORIST'S COLOR CHART

is now accepted as the standard in preparing color descriptions by many foreign houses as well as in America.

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THE BEST FOR ALL Florists



FOR SALE BY SEED STORES

FOR FURTHER PARTICULARS WRITE TO

LOUISVILLE SPIRIT CURED TOBACCO CO  
LOUISVILLE KY

Sports.

There has been no novelty which originated as a sport that has caused so much unfavorable comment as the carnation Harrison's White, which was sent out last year. Being claimed as a sport from that popular variety, William Scott, was one of its greatest recommendations; though those who bought it the most heavily saw it in its own home growing, and many of them more than once. Secretary Herr, under the head of "Last Season's Introductions," states: "There is a possibility that a variety that can sport color can also produce a bud variation that would change the entire habit of the plant." Darwin designated sports as "bud variations," which is more specific and carries with it a more clear idea as to what is meant.

We have abundant evidence that most plants, if not all, have the power of varying in growth, when the color of the flower is not changed. Among roses we have Climbing Perle des Jardins, C. Meteor, C. Bride, C. Kaiserin Augusta Victoria, C. Souvenir de Wootton and some others which have originated in this country, besides many of the Bourbons and hybrid remontants that have originated in Europe; and so far as I know the color of the flowers in each individual case has remained the same, the variation in growth being the only difference. Sunset was a sport from Perle, and the growth was by some growers considered to be somewhat weaker than was that of its parent. It would be difficult, it seems to me, to explain the cause of sports. Carnation Victor is considered to have a stronger constitution than Daybreak, its parent. Helen Keller carnation sported with me two distinct shades of yellow with the red stripes peculiar to that variety, but both of them were so affected with bacteriosis that they succumbed. Some experts who claim that Harrison's White is none other than Puritan assert that there are two distinct forms of that variety which have been "fixed" by selection. E. L.

**Standard Pots** Made by  
 Good Railroad Facilities For shipping. **KELLER BROS.**  
 Special Attention Given to Mail Orders, and Special Sizes Made to Order. **NORRISTOWN, PA.**  
 Price Lists Furnished on Application.

**STANDARD FLOWER... POTS.**  
 We Manufacture a full line of Standard Flower Pots, Hanging Vases, Lawn Vases, Seed Pans and Cylinders, glazed and with handles.  
 SEND for our price list before ordering elsewhere and save 25 per cent. Address  
 Hilfinger Bros. Pottery, Ft. Edward, N. Y.

**Make Your Own Pots**  
 The Cow Manure Pot is the best for young plants. For bedding and sending of plants the best thing ever invented. The manure for the plant and muck of the pot. In the cow pot, the roots are developed in getting them out or sending them but in the cow pot you do not have to disturb the roots, you give the bottom of the pot and set it in the soil. It never stops the growth of the plant. It is the best for the plant, especially if you have a large number. The pots stand perfectly without rotting and will hold 4 years gardeners should have one of these on hand for potting. Directions and prices on stamps for samples and low prices.  
 Single Machine 2 Inch Pots \$1.00  
 Double 2 and 4 Inch Pots 5.00  
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SEND FOR FLORISTS PRICE LIST AND CATALOGUE FREE UPON APPLICATION



**Gurney**  
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**HOT WATER HEATERS AND STEAM BOILERS**  
 THE STANDARD OF EXCELLENCE FOR THEIR RESPECTIVE REQUIREMENTS.  
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**SYRACUSE POTTERY CO. Flower Pots,**  
 MANUFACTURERS OF  
**Bulb Pans, Hanging Baskets and Saucers**

OUR FLOWER POTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Poropot." They are more Porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

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**STANDARD FLOWER POTS.**

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

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**Standard Flower Pots...**

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere. . . . .

CAMBRIDGE TILE MFG. CO., Covington, Ky.



**STANDARD FLOWER POTS FERN PANS and AZALEA POTS...**

OLD RELIABLE MAKE OF Elverson, Sherwood & Barker.

Write for price list Address

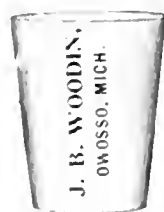
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**FLOWER POTS**  
 ALL KINDS.  
**STANDARD POTS** A SPECIALTY  
 List and SAMPLES FREE.  
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**GEO. KELLER & SON,**  
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 Before buying write for prices.  
 361-363 Herndon Street,  
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 Mention American Florist.



**Jute Fibre Flower Pots...**



The Finest Thing on Earth for Shipping Plants.

Very Strong, Light, Neat and Attractive

Send for stamps for samples and low prices.

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**THOSE RED POTS**

"STANDARDS" FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

**DETROIT FLOWER POT M'FY,**  
 HARRY BALSLEY, DETROIT, MICH., Rep. 490 HOWARD ST.

**Standard FLOWER Pots**

If your green-houses are within 500 miles of the Capital, write us; we can save you money.

**W. H. ERNEST,**  
 Station M, N. E. WASHINGTON, D.

Butted Glass vs. Lapped Glass.

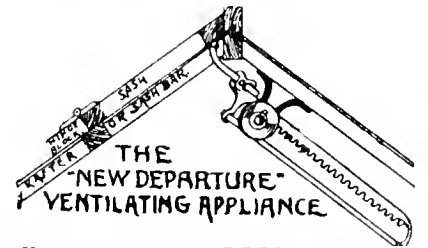
Answering J. W. D., Dixon, Ill., authorities differ in regard to this question. Each system has many strong advocates and many opponents. The butted glass system is certainly much the cheaper in first cost, and very much more easily repaired. It is, we believe, not well adapted to very flat roofs, but the main objection urged against it is that the glass becomes quickly blackened on the inside, which is not only unsightly, but obstructs the light, unless frequently cleaned. This trouble is not so serious when anthracite coal or the best grades of soft coal are used, but with the low grade Illinois coal might be very annoying. Square glass (in your case 16x16) is generally recommended for butting, so that it may be by changing sides be more carefully matched.

A carefully laid butted glass roof, with glass well bedded in good putty, is the standard for comparison, and the advocates of lapped glass will hardly claim more than that the butted glass, when well laid, is equally good.

This whole matter has been very fully discussed in many former issues of the AMERICAN FLORIST.

SALT LAKE CITY, UTAH.—A new organization has been formed in this city and will be called the Utah Florists' and Gardeners' Association. The growers alone have been organized up to the present time, but the new association proposes to be much broader in its workings. A meeting was held at the offices of the Huddart Floral Company March 3, and the following officers elected for the ensuing year: President, John Reading; vice-president, John Starley; recording secretary, Hugh Connor; treasurer, Ed. J. Petty; corresponding secretary, Peter Huddart.

OUR NATIONAL FLOWER.—A correspondent who has been caught, and badly used up, in the cogs of a certain political machine says that the skunk cabbage flower is the only one truly emblematic of our institutions.



You can not get a GOOD THING for nothing. But the price of this apparatus is next to nothing. Send for price and description to

J. D. GARMODY, Evansville, Ind.



LOUISIANA Cypress Green House Material.

RED CEDAR

Write for Estimates.

GREENHOUSE WOODWORK.

Open-air-dried Cypress Lumber is more durable, and better suited to Greenhouse conditions, than kiln-dried stock. But you cannot get it from those that are engaged in the business in a small way—even though their entire business is confined to greenhouse material—for it takes a long time for the lumber to thoroughly dry and this means an investment in lumber that only those of large capital can make. The only way to have air-dried lumber is to buy green lumber and hold it until it dries. Those that order dry lumber from the producers of Cypress get kiln-dried stock. It is cheaper for them to kiln-dry than to hold the stock long enough to season it in the open air. We carry a large stock and fill all orders with open-air-dried Cypress clear of knots, sap and all other defects.

Write for Circulars or Estimates.

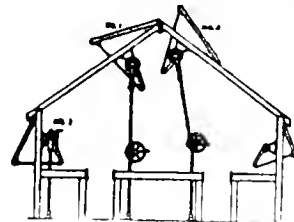
Lockland Lumber Co.

LOCKLAND, O.

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STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

Send for Catalogue.

E. HIPPARD, YOUNGSTOWN, OHIO.

Advertisement for California Red Cedar, Never Decays, A. Dietsch & Co., 619 Sheffield Ave., Chicago.

Wheeler-Stenzel Co.

IMPORTERS AND JOBBERS OF

Greenhouse Glass

Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

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FOR SALE CHEAP. GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 456 W. Broadway, NEW YORK.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing

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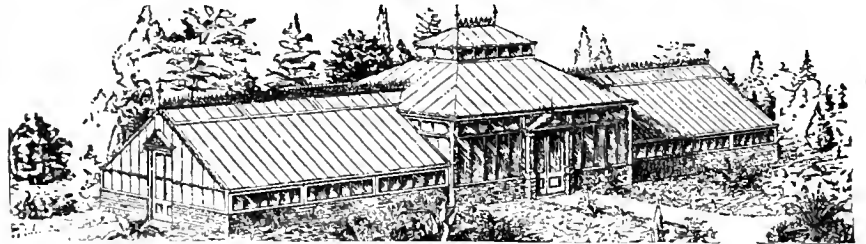
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 Neb., August, 1898.

**THE AMERICAN CARNATION SOCIETY.**

Annual Convention at Philadelphia, February, 1899.  
 ALBERT M. HERR, Lancaster, Pa., Secretary.

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## Ornamental Bedding.

PART I.

Although carpet and ornamental bedding is not used as much as formerly, it still has its claim on recognition and its place in ornamental horticulture, and when the design is tasteful, the colors well chosen, the planting nicely executed, and the bed well taken care of, these bright bits of color on nature's green carpet seldom fail to win admiration.

The soil in these beds should be rather light and mellow; if too heavy, sand or ashes should be used to mix with it; if too light and sandy, then some soil of a heavier nature. Well rotted manure should be applied generously in spring, as the great number of plants in proportion to the space require lots of nourishment to insure good results. If the beds are planted with bulbs or pansies for early spring, they should receive an extra manuring before they are planted. In digging the bed and preparing for planting, pulverize the soil finely, and if this cannot be done to satisfaction or if the design is complicated, surface it with one-half inch of sifted soil in which to draw; mark all the lines as you proceed with white sand, sawdust, corn meal or similar material to make the lines stand clear and distinct, this is especially advisable, if the planting takes several days, or if it is interrupted by showers, as it is too much trouble to cover the beds except the smaller ones. It is necessary to have a low bench of sufficient length to place across the bed when designing, planting, trimming, or a plank put on a couple of blocks of wood will do. Occasionally when designing or planting one can step in with one or both feet, but this place must then be worked well with the trowel before planting, and it cannot be done when the soil is damp. The designing and planting, details of which will be given later, must be done as true and careful as possible; it is the making or the spoiling of the bed, and the time spent in getting it right is not wasted.

The trimming is of equal importance for further success and should be carefully and accurately done. It is, however, not so difficult a matter when we only bear in mind that each kind shall occupy its own allotted space, no more and no less. The main thing then is to keep the lines true and to watch that the stronger growing varieties do not press the smaller ones. For this reason it is advisable that one man does or superintends this important work and especially one who has helped to lay out and plant the design, as he then has a better judgment of the details. It is also well to have a sketch of the design at hand for comparison.

First he trims all the lines, clipping sideways with the sheep shears, so that he cuts all the shoots that grow across the line from both sides; all points, small curves and similar details should receive special attention. After this is done, he uses the shears flat on top, trimming nice and even, either level or sloping as the case requires; for instance, if a combination of alternanthera and coleus, then the alternanthera should slope up to the coleus, while these should be trimmed hard at the junction to avoid breaks in the surface. Occasionally certain parts of the beds are raised over the surroundings, and they should then be trimmed accordingly. It is not necessary to pick up the trimmings, they wilt and fall to the bottom. This trimming is for alternanthera, pilea, santolina and such small plants. Coleus, achyranthes, acalypha, etc., had better be pinched; it makes a better looking job.

Towards fall when the nights are colder less trimming is needed, as the growth then is slower. Just at this time of the year, when the colors are most brilliant, the beds are often spoiled by an early frost. This can be avoided with a few precautions, covering the beds at night with old carpets, sheets or similar material. The writer knows of a place near Pittsburg where the lady of the house every year has a couple of pretty design beds and keeps them till quite late in fall in the manner indicated, in fact so long that their brilliancy almost looks out of place in comparison with the surrounding sombre aspect of nature.

While trimming the bed, the edges of the grass also need attention; as a rule trimming with the shears is sufficient, but once in a while a sharp spade may be used. This trimming often brings the edge a little out of line one way or the other. For this reason the beds should be gone over each spring and corrected; to do this job as easy as possible, I have found it practical to mark all the main points such as centers of circles, foci of ellipses (ovals) corners of squares and diamonds and centers or guide points in the lawn used in outlining the beds with pieces of one-quarter inch gas pipe twelve or eighteen inches long, hammering them in even with the surface—if I cannot mark the center of a circle on account of setting an agave or such plant there, I mark the ends of a diameter. When the digging is done a little carefully these pieces of gas pipe do not interfere with any work, and when small pegs are stuck in the pipes the trimming of edges can be done quickly and precisely, and they also come handy for laying out the design, as they mark the principal points.

BOONVILLE, IND.—Mrs. J. Hudspeth's greenhouses at this place caught fire February 22, and the steam and smoke ruined most of her plants.

After these preliminary remarks when we turn our attention to the designing and laying out of carpet beds, I will say that it is a misconception commonly met that the design should contain lots of scrolls and small details; such a bed is hard to lay out and plant, and as a rule does not give satisfaction for the amount of work spent on it. A neat design, where each color has enough space to assert itself and to show the others to good advantage, no two shades of the same color together, and with the design in proportion to the size of the bed, is much more pleasant to look at.

The implements necessary for laying out the design are tapeline, twine, some wooden pegs about the size and length of a lead pencil, and a few stouter ones for the more important points. Besides these we have, of course, the working sketch on which all the measures necessary for construction are marked; then select a handy man for your helper, and you are ready for the task.

In the next issue I will explain how to proceed and give a few easy examples.

H. HANSEN.

#### Begonia Coronata.

This is a tall, strong, robust growing variety, the stems growing five feet two inches high within fourteen months, from cuttings.

The stems branch very little, unless pinched back. It sends up numerous flowers on erect peduncles, the clusters being nearly evenly cymose, of about fifty male flowers on a truss and nearly as many females. The trusses when cut last a long time in perfection. It requires plenty of room to grow it well. It is said to have been raised by V. Lemoine, France, and is described in his catalogue No. 124 of 1863, as a novelty, and is a cross between *B. carolinifolia* and *B. polyantha*. The stems are stout, upright, fleshy, nodose, green when young, russet brown when old, bearing viviparous buds when young, and covered with a russet brown tomentum. Petioles seven inches long, green, red at the apex and covered with tomentum. Leaves ten inches wide by fourteen and one-half inches long, dark green, intermingled with a yellowish green, glossy, slightly hairy on the midribs. Under surface light green and hairy on the midribs and veins. Peduncles eight inches long, reddish. Flowers one and one-eighth inches across. Males dipetalous. Females with two, three, four and five divisions. Color a beautiful rose.

JOHN COLTON.

#### A New Mushroom Spawn.

It is a well-known fact that selection is the most powerful agency in the improvement of cultivated plants. The slightest variation is contemplated by every horticulturist with the greatest interest, in the hope that a new variety may spring up, which would prove better in one particular or another than the types already known. It is through the agency of self-sterilization or of artificial crossing that almost all the improved plants (sport varieties excepted) have been obtained.

But as regards mushrooms these things are altogether different, no flowers, no crosses and no possibility of hybridization. The plant itself consists of a thin and subterraneous mycelium upon which now and then appear the round bodies, these are the stroma or "buttons" which will by and by develop into what we commonly call a mushroom. The mushrooms



BEGONIA CORONATA.

belong only to the upper classes of fungi, ascomycetes and basidiomycetes, the common mushroom or *Psalliota* (*Agaricus*) *campestris* belonging to the last named class. Now, the mushroom bears spores, which have the appearance of very small seeds, although they are only asexual buds, and after all only parts of the mother plant; the spores can germinate and give another mycelium bearing some other stroma with spores, and so on. However, if we consider the *Psalliota* *campestris*, we will find among it many varieties, some being much more valuable, heavier and better flavored than the others. These variations should not be called otherwise than asexual or sport variations, if we compare them with what occurs even in much more perfect plants, such as celery or chrysanthemum. But they have the greatest importance for the mushroom grower, who should always aim to get spawn of a perfect variety, a spawn which, up to the present day was not easily found in the trade.

There are various ways of preparing

the spawn for the trade, but all of them start from the same principle, viz., to let maiden spawn, accidentally found on old stable manure, spread itself through a heap of a convenient substratum, stable manure or horse droppings and cow-dung, and to divide it into bricks. The maiden spawn, it is true, originated from a spore, but a long time always elapses between the germination of the spore and the moment the bricks are ready for use. The small original plant has been allowed to develop into a very great one and then been divided, losing every day part of its energy, and at the same time becoming more easily attacked by various diseases which can completely ruin the crop. Every one who has tried to grow mushrooms knows how many deceptions and failures occur in that operation.

As we have seen, the maiden spawn is the result of a spore germinating fortuitously on stable manure. For a long time the attention of botanists was attached to the fact that it was impossible to grow artificial maiden spawn; the spores could germinate in the laboratory,



but the young mycelium, even if placed on stable manure, died soon after. It is only quite recently that a French mycologist, Dr. Repin, succeeded in his endeavors. His process, of course, is still a secret, but the maiden spawn he produces has been tested by several mushroom growers in the neighborhood of Paris, and always proved quite a success.

All that we can know is that Dr. Repin sows the spores in dry and compressed stable manure, cut into small square bricks about 3x3 inches large and one-half inch thick. These bricks are used in the same way as were the former ones, but they contain much more mycelium under less weight and volume, the spawn, besides being perfectly young and fresh, has a great vitality, is free from diseases, and last, but not least, the spores that are sown are selected from choice varieties only, giving confidence to the grower that he will not spend his time, money and labor for a worthless crop.

VILMORIN.

not of their kind—keep down the weeds. To scratch over the surface of the soil on the rose benches, at the same time picking off all bad foliage, etc., always gives a house a good appearance and must be beneficial, but the roots are now so near the surface that it must be light indeed, a mere roughing over with the hand.

Plants in good condition will now be producing the finest blooms of the season; if we could only have them continue to bear such flowers until June 1, instead of dwindling down until Bridesmaids are the size of Papa Gontier, and the foliage all crippled with mildew. We do occasionally see such blooms as late as mid-summer and wonder how ever it is done. What is the secret? Extra good soil? Some particular fertilizer? I think not; the secret of such blooms lies in attention and anticipation on the part of the grower; keeping the plants clean and free from everything that would weaken them or interfere in any way with their growth, such as greenfly, red spider, mildew or

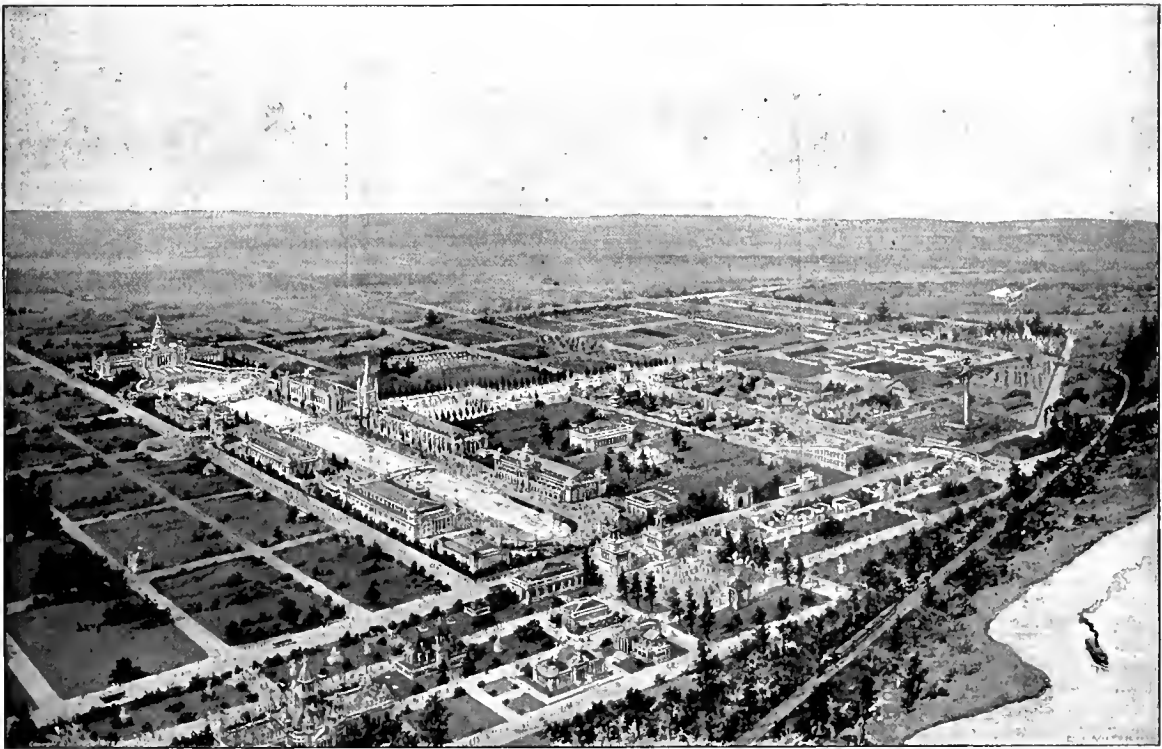
or a hot dried-up atmosphere; avoid a chill, plants are liable to the "grip" of mildew.

It is almost too late now to root any more cuttings, except possibly Mrs. Pierpont Morgan, which I have found does better when rooted late and kept in pots only a very short time. Brides and Bridesmaids grow slowly in pots and if propagated late are apt to be too small when flowers are looked for in the fall, the same is true of Meteor and other varieties.

ROBT. SIMPSON.

#### Soil for Roses and Carnations.

ED. AM. FLORIST.—I should like to have your opinion on filling benches for rose forcing. I have always used sod, but as it is hard to get, would like to use something else, if as good, as sod of the blue grass kind is scarce. Also is the soil we use for roses a good soil for carnations? What should it consist of, etc? J. R. E.



GENERAL VIEW TRANS-MISSISSIPPI AND INTERNATIONAL EXPOSITION, OMAHA, NEB.

#### Rose Notes.

The rose-grower, in company with all other greenhouse men, will have his hands very full during the next few weeks and will find it very difficult to keep everything moving along as fast and orderly as he would wish. The young stock calls for immediate attention, and the blooming plants will not bear to be neglected. Everything grows now if it has half a chance; plants that may have hung fire all winter will brighten up under the influence of the spring sunshine. They will need to be tied often to insure straight stems; you can't get people to even look at anything crooked. Side growths will need to be removed regularly, and before they are large enough to rob the main bud. The weeds will grow amazingly if left unmolested for a few weeks, and I have noticed that weeds are like "trusts," they soon starve out everything that is

black spot; and by close observation anticipating their wants and supplying the same, whether it be in the shape of a mulch, liquid manure, shading, or even an ample supply of fresh water before there is a possibility of their suffering. It will not do to put off feeding with liquid manure, or giving a mulch until the flowers become small, or the chances are they will remain so.

Changeable weather is likely to be the rule just now. Vigilance must be our watchword. We must transfer our attention from the boiler to the ventilators. It is difficult to make some people understand the difference between an automaton and a being possessed of judgment and reasoning faculties. It needs the latter to properly operate the ventilators in a rose house at all times, and especially during March and April. Ventilate early, increase gradually; avoid a close muggy,

I think there is no question but that turf or sod is the proper thing for growing roses. We hear it said sometimes that it makes little difference what kind of soil roses are planted in, or any other greenhouse crop, so long as it is properly composted with manure, etc., and the plants are given the right treatment. Just as well say it does not matter what a man eats provided his stomach is filled, as health depends mainly on the kind and quality of our clothing. Through the processes of digestion and assimilation the food becomes hair, skin, blood, bone, sinew, flesh—the body—so in like manner the various ingredients of the soil enter into and become part of the plant.

I am certain that the very best soil it is possible for us to obtain will in every case be the most economical in the end. Roses grow naturally in a soil that is suitable, but it is up-hill work trying to produce a

good article from a poor soil. Would certainly advise "J. R. E." to plant in a good heavy loam turf if it can be had. If impossible to procure turf, good quality loam may be mixed with rather strawy manure to take the place of turf as regards porousness, and may then give fair, even good satisfaction.

Yes, as a rule the soil that produces the best roses will give the best results with carnations too, though a loam that is inclined to be sandy is perhaps preferable to one of a clayey nature. One part cow manure to four or five parts soil, if laid up in thin layers in the early spring and worked over and thoroughly pulverized during May, will be in prime condition for planting in June and July. One hundred pounds each of bone meal and wood ashes to every 2,000 square feet of glass may be mixed through the soil after it is in the benches, or if the proper quantity can be guessed may be added while turning outdoors. ROBT. SIMPSON.

### Carnations.

Last week I had something to say about rusty cuttings, and I want to reiterate what I said then, "Don't throw them away." Most of our best varieties are affected with rust, and grow the best varieties we are compelled to.

If any grower is fortunate enough to have only a very small percentage of rusty cuttings in the lot, it is of course advisable to throw the rusted ones out and try and keep the stock clean. If, however, the percentage is small on the clean side of the question, there is no use despairing on that account.

A very good method to keep the stock comparatively clean is to start all rusty cuttings in pots instead of boxes, and after they have become well established and ready for a shift or to plant out, trim all the rusted leaves off the bottom of the plant (where they are usually confined in young stock) knock off about one-half inch of the soil from the top of the pot, to get rid of the spores that have dropped on the pot in handling, and they are ready for a shift or for planting out. After they are ready to top, if it is not too late for propagation, take the clean tops and use them as cuttings, thus often getting perfectly clean stock in that way.

It is not wise to plant rusted stock in the field, as the spores are apt to be carried to clean stock. This applies only to planting them in close proximity to the others. Growers who are fortunate enough to have plenty of land need not be alarmed about planting rusted stock in one part and clean in another, as the danger from carrying rust spores any great distance is practically not to be considered.

Anyone having well ventilated houses, that is, houses that have side ventilation and in which a current of air can be maintained, will get the best results and have cleaner stock in the fall by planting all rusted stock in the houses direct. If not fortunate enough to have such houses, pretty nearly the same results may be obtained by growing them in pots all summer or until the middle of August, and they should then be planted where they are to bloom.

In growing carnations in pots there are several things to be taken into account, and I will now cite some of them as follows.

First, from the very day they are potted give them a place in the house where they can get the best possible ventilation, and be careful on this point until they are ready to be out in the fall.

Second, see that they do not suffer from an over supply of water or from a lack of it. They should never be allowed to become wilted dry, neither should they be kept so constantly wet as to produce soft wood, as the latter style of plants are always especially liable to diseases of all kinds.

Third, be careful that red spider does not get a hold on this young stock, at the same time do not syringe once more than is actually necessary, or the object of indoor culture will be defeated, which is to keep the foliage as dry as possible, and thus help to eradicate and keep down the rust.

Fourth, see that the plants do not become pot bound to any great extent. If in order to avoid this it is necessary to shift them until they get into a 7-inch pot, the extra work will be well repaid by the better health of the plants. Every time they are shifted pull off all rust affected leaves and take a half inch of the soil off from the top of the pot as before directed. Have the soil in the pots rather dry when they are shifted, so as to be able to give it a squeeze and shake out most of the old dirt, so that fresh soil can be put to all of the roots. This will also keep them from forming a hard mass of roots in the center with only a few active and working roots around the outside of the pot, as is usually the case with potted plants.

Use good potting soil, and remember that care and attention are as necessary requisites to good carnation culture as to that of any other plant. It will then be found that rusted cuttings will produce as fine blooms and as much in the way of dollars and cents as the cleanest stock on the place, that is providing the variety is all right. There are many varieties that would not be worth all this care and attention, and would never half pay for it, but any variety that has points of advantage over others in every respect excepting the fact that the stock is rusted, will be worth trying and usually pay.

ALBERT M. HERR.

### Carnation Notes.

A light shading on the glass will now be necessary, but avoid getting it too dense. We find a strip, say eight inches wide, down the center of each pane about right.

Do not relax at all in the care of your plants if you wish to prolong their productiveness, for a little neglect at this time, such as letting them dry out too much or not properly attending to the ventilation, will give them a check, as well as going a good way to produce a crop of red spider, which will be a hard matter to get rid of now. Some benches will need watering nearly every day, if the weather is bright and warm, as the soil being full of roots they dry out very fast.

Any bed that has the appearance of being worn out, or in which the roots have become exposed on the surface, will be greatly benefited by a thin mulch which will not only protect the young roots from the sun and drying winds, but will help to keep the soil good and cool. Do not discontinue the liquid manure, but give an application say about twice a week when the conditions are favorable. It should not be used too strong, however, as the plants will take it up very fast now, and it is an easy matter to overdo it if we are not cautious, always remember not to apply it when the soil is too dry.

Give all the ventilation possible on

bright days, and in cloudy weather have enough ventilation on to prevent dampness, and we are getting to the time when a little crack may be left on all night unless the temperature outside should get too low. Give the plants the same care in regard to disbudding, tying and cleaning as you would two months ago, for the increasing supply, from now on, makes it necessary to put the flowers on the market in the best possible condition if returns are to be good. Such varieties as Mayor Pingree, Jubilee and others, with extra long stems, very soon get crooked and brittle if not properly attended to.

C. W. JOHNSON.

### Philadelphia.

TRADE QUIET.—PRICES VERY LOW.—VIOLETS IN ABUNDANCE.—ROSES PLENTIFUL.—FAILURE OF BERMUDA LILIES.—PERSONAL.

How's trade? Well things are very quiet with us just at present, if we except the curbstone merchants who are right in it so to speak, for fine mild weather has brought out quantities of flowers and the extreme low prices enables the fakirs to sell at such tempting figures that passers-by cannot resist.

Violets are to be had for any price, in fact the growers say they pick all day and then do not get them all. As they are sold on the street it would seem as if the grower did not get enough to pay for the labor of gathering and bunching. Fifty cents is high for double violets with the exception of a few specials, and these are generally bunched so that the price hardly exceeds this figure. Supiot's new violet La France, an improvement on Princess of Wales, being of darker color and with more substance, is a fine thing. The H. A. Dreer Co., thought so well of it that they have taken of Mr. Supiot all the stock he can furnish the coming year. All violet growers should give it a trial, as anything better than Princess of Wales is surely worth having. Roses seem to grow on every bush they are so plentiful; \$4 to \$6 is the prevailing price for good Brides and Bridesmaids; selected stock all stiff stemmed strives for \$8 while for a few specials with a suspicion of the Manetti stock about them, \$12 is asked. Beauties are to be had at all prices from \$5 to \$6 per dozen for the four-footers down to so much a grab, or most anything so you take the lot. Brunners are quite plentiful and of good quality, \$3 per dozen is enough for some growers although others are sold as high as \$4. Carnations are commencing to drag, \$1.50 is the average price for good stock. The past season must have suited the carnationists as the supply has hardly ever exceeded the demand. Lily of the valley is in fair demand at \$3 to \$4, many growers say it does not pay at less than \$4 as so comparatively few pips produce first class flowers in every hundred forced. Plenty of daffodils, but here again the percentage of first class flowers is also small.

With the failure of the Bermuda lilies and the low grading of the other forcing stock, as noted above, the growers of this class of plants are having a hard time of it this season.

Robert Scott & Son's new tract at Sharon Hill, Pa., comprises fourteen acres of land. On this is to be erected at once three houses for cut flowers, 20x200 feet. Fourteen other structures for young roses are to follow, composed in part of the houses now at the old place which will all be removed by August. The roses to be forced in the new houses will all be grafted, Mr. Scott finding them much

more profitable than roses on their own roots.

Growers having large quantities of Easter stock are now the centers of attraction, and their places are being visited by dealers from all directions. New York, Baltimore, Washington and other cities are drawing on this city for good Easter plants. Robert Craig's Ramblers are a great temptation. A few plants a little in advance of the Easter lot are now a great show being full of flowers and should sell at sight.

John Westcott is happy, he having broken the record of the alleys at the club room last Monday. Two hundred and twenty-eight is the new figure, moved up from 221 where it stood for about a month. There happened to be a few members present when the score was made, and something particularly pleasant opened up. No, it was not a rosebud, but the odor we understand was delightful. May 228 stand for a long time.

Visitors in town: W. J. Halliday, Mrs. M. J. Thomas, of Baltimore; J. H. Small and wife and J. H. Loose, of Washington; Alex. McConnell, of New York. K.

#### Fred Kanst.

Fred Kanst was born in Germany in 1847. He came to this country with his parents and worked at general gardening in different places.

After passing a satisfactory examination he was appointed to his present position as landscape gardener for the South Park, Chicago, March 20, 1873. His thoroughly practical ideas of growing and handling trees and plants soon came to the notice of the commissioners, who in turn were not slow in offering sufficient inducement for him to remain, and he has successfully filled his position for the long period of twenty-five years.

During his early years at the South Park he gained quite a reputation from the original designs of bedding which were displayed from year to year. He made it a special point to change his designs almost every year, so that for nearly twenty years it could hardly be said that the designs were not different from the preceding ones. Many readers will no doubt remember the Gates Ajar, the Globe, Calendar, Sun Dial, and vases, made out of living plants, all of which were his work. This style of planting was copied in different parts of the United States, and in many cases the lack of knowledge as to their proper construction, or not having the varieties of plants required, led to disastrous results. The South Parks being the fountain head for this kind of bedding caused the wrath of the landscape experts and horticultural writers to fall upon it with such force and severity as to compel Mr. Kanst to abandon this style of bedding and resort to planting more for flower effects, using great numbers of herbaceous plants and cannas, which grouped together by an artistic hand have proven as attractive to the public as were the designs of days gone by.

Mr. Kanst was married in 1873 to Miss Elizabeth Youngblood. They have three children, two boys and one girl. The youngest son is following in his father's footsteps and has just been appointed assistant landscape gardener in the South Park.

Mr. Kanst's account of how he first became interested in gardening work is very interesting. He says:

"My first idea of becoming a gardener came from my school teacher in Germany.

At that time (and I suppose it is the same now) the school masters were generally fair horticulturalists, florists and nurserymen all combined.

"My teacher owned a nice garden and nursery. One day after I had driven some geese out of his garden as I had seen other boys do before he said to me, 'That's right, my boy, how would you like to be a gardener?' I told him I would like it first rate. 'All right,' he said, 'you may be my gardener and help me take care of my



FRED KANST.

garden, but you must allow neither weeds, lazy boys nor geese to come into the garden."

"After that I had the freedom of his garden, which was quite an honor, and I have always felt thankful to that teacher who helped me to pick out a profession which has been a very pleasant one for me."

Mr. Kanst possesses the qualities of energy and solid practical knowledge to a marked degree, and it is by merit alone that he has remained at the head of his department for so many years. He has secured the respect and friendship of all who have been associated with him either in a business or professional way.

#### Boston.

WARM WEATHER AND SURPLUS OF FLOWERS.—JACQS GOING CHEAP.—LECTURE IN HORTICULTURAL HALL.—SPRING EXHIBITION OPENS MARCH 22.—LOCAL NOTES.

A dearth of news and a surfeit of flowers are the most prominent features of the situation here at present. The weather has been unseasonably warm and the output of bloom from the greenhouses has been greatly augmented thereby. The effect of the warm spell on the crop intended for Easter consumption, if it continues much longer, must be very disastrous. Many growers view the prospect with considerable alarm.

In roses, Bridesmaid and Bride continue far in advance as leaders and nothing else seems to have much chance for an existence, although it might be noted that Mrs. Morgan has shown a gratifying advance in popularity within the past year. But the public seem to have tired of Metcor and it goes slowly. As far as

Jacqs are concerned there is little to encourage. They are being offered by the street fakirs at the rate of four for a quarter dollar, big fine buds with long stems. It is hardly necessary to remark that no one can grow Jacqs at that price.

Violets are overflowing the show cases and one can get a bunch of them for a nickel. The street stands are fairly carpeted with violets. Carnations are abundant but average high in quality and as they keep better than either roses or violets this warm weather not much fault can be found with the returns realized for them.

Geo. T. Powell gave a lecture at Horticultural Hall on Saturday, March 12, on the relation of the public schools to rural and urban life. The lecture was a scholarly production and was listened to with delight by a very large audience. On the exhibition tables some interesting cut flowers and plants were displayed. Orchids from J. E. Rothwell and C. G. Roebing, Victoria narcissus from R. & J. Farquhar and a large collection of roses from James Comley were among the attractions.

E. M. Wood and W. J. Stewart have gone to Washington to attend the annual meeting of the executive committee of the Society of American Florists.

The spring exhibition of the Mass. Horticultural Society will open on Tuesday, March 22 and continue for four days.

Very few visitors have favored us recently. Mr. De Forest, of Hitchings & Co., New York was noted last week coming out of the Parker House looking as though the fare there agreed with him exactly.

The gentlemen who visited Westerly, R. I., a few days ago never tire telling of the great courtesy and hospitality of their host and hostess, Mr. and Mrs. Renter.

The committee on cities gave a hearing at the State House on Mayor Quincy's scheme for the consolidation of the Public Grounds and Park Departments of Boston.

Peter Boll is building a convenient office in front of his greenhouses at Malden.

For the best Brunners in market it is difficult to get \$25 per hundred.

#### New York.

BUSINESS DULL AND PRICES AWAY DOWN.—ENTERTAINING LECTURE BY PROF. SMITH.—FINE EXHIBITION.—NOTED VISITORS.

The cut flower market continues as reported last week. Values are demoralized. Customers are only secured by going on the hunt for them and then it is not so much a question of price as it is to get rid of the stock. The Greeks are dictators just now and take the fullest advantage of their opportunity.

Prof. J. B. Smith addressed the Florists' Club on the subject of greenhouse pests, at the meeting last Monday evening. There was a good representation of the members, and the lecture was both instructive and entertaining. A straightforward manner, pleasing delivery and a good vocabulary of plain, Anglo-Saxon words of one and two syllables made Prof. Smith a favorite with his audience from the start. His views on the question of the plant inspection legislation which is now being agitated were especially applauded. The various ways in which injurious insects may be accidentally transported from one place to another were alluded to and he said that the quarantine and inspection laws now proposed would not be worth the snap of one's finger in accomplishing the object

sought. Carefulness on the part of growers he declared to be the great duty and the only course that could be expected to yield good permanent results.

The exhibition table was a great bank of beauty, W. A. Manda having contributed a superb collection of orchids in bloom, which included fifteen varieties of dendrobiums, some very rare, also *Cœlogyne cristata alba*, *Angraecum sesquipedale*, *Selenipedium Roeblingii*, *Cattleya Schroederiana* and a new *Cattleya intermedia* which has been appropriately named *Mandaiana*. A vase of the new carnation, Mrs. Thos. W. Lawson, was also on the table and Mr. Fisher who had brought it on from Boston was called upon to say a few words which he did in his usual unassuming manner. The committee gave the carnation a generous endorsement. An adjustable fastener to be attached to greenhouse rafters was exhibited by Thos. W. Weathered's Son and was duly entered and passed upon in competition for the gold medal. It is worth noting that Mr. Weathered, who so vigorously opposed the provision allowing manufactured articles to compete for the gold medal is the only exhibitor in this line so far.

Mr. E. M. Wood, of Boston, who was a visitor, being on his way to the S. A. F. executive meeting at Washington, was called on to speak a few words. Mr. Wood paid a high compliment to New York's flower growers and noted the fact that "Boston Roses" are no longer a prized commodity in the New York flower stores. Fourteen new members were admitted to the club and nine more were proposed. Vice-President Logan occupied the chair, the president being absent on account of sickness in his family.

W. H. Siebrecht turned his potting shed at Astoria into a garden Saturday evening with evergreens, hammocks and settees and gave a grand party to sixty young people of the trade. Dancing and collation were indulged in.

Visitors in the city: Harry Eyres, of Albany, and T. J. Totten, of Saratoga.

LATER.—Thursday and Friday markets demoralized. Violets difficult to dispose of at \$1 per 1000; roses slow at \$7.50 per 1000; fine large Beauties \$15 per 100.

### Chicago.

DECIDEDLY BETTER BUSINESS.—GOOD PRICES.—WINTER & GLOVER DISSOLVE PARTNERSHIP.—THE DEATH OF SAMUEL RUBENS.—LOUIS WITTHOLD MARRIED.—VISITORS IN TOWN.

Business has been decidedly better during the past week than it has been before since Lent began, although the fine spring weather for the last few days has brought out an unusually large amount of flowers; still the demand has about kept up with the supply in all lines except lilies, which are now somewhat slow sale except for the very best quality, other bulb stock, such as tulips, narcissus, and hyacinths—of which there was a large stock on hand a week ago—is now all cleared out every day.

Bassett & Washburn are bringing in a fine lot of long stemmed American Beauties and Harrison lilies they expect to have 25,000 lilies in for Easter, the prospect is that there will be plenty of cut lilies in Chicago to supply the demand for Easter, though good pot lilies will be scarce.

A. I. Randall has a very brisk demand for flower especially when the O'clock shipment arrives, then everything goes.

The firm of Winter & Glover has dissolved. The business will hereafter be carried on by S. B. Winter. During the time the firm has been in business here,

Mr. Winter has made many friends who will all wish him continued success. The firm was originally organized as T. J. Corbrey & Co. (T. J. Corbrey and J. T. Anthony) and did business in the Cut Flower Exchange. Mr. Anthony retired and Mr. Corbrey continued the business alone for some time. When the Exchange closed its doors he moved to the southeast corner of Wabash avenue and Randolph street. For sometime while at this location Mr. Chas. W. MacKellar was a member of the firm. When he retired Mr. Corbrey became again the sole proprietor, afterwards moving to the northwest corner of the same streets. While here Mr. John T. Glover purchased an interest in the business which was still known as T. J. Corbrey & Co., and soon after Mr. S. B. Winter acquired Mr. Corbrey's remaining interest. The firm then became Winter & Glover, moving to 19 Randolph street, under which name and at this location they have since done business.

Samuel Rubens, for several years with Kennicott Bros. Co., and subsequently with A. G. Prince, died on the 15th, after a lingering illness.

W. E. Lynch has been testing the Bohn ice box for the past week; he claims he can reduce the temperature in the box to 4 below zero. He has had wire designs in the box for a week and so far the designs show no symptoms of wilting or going to sleep.

A. L. Vaughan, of Vaughan, McKellar & Winterson, returned Sunday morning after several weeks' absence on a business trip through the east and south. During his absence he took occasion to visit his old home at Monroe, La.

Louis Witthold, son of George Witthold, the well known Chicago florist, was married Wednesday evening to Miss Schneider, of Wheeling, Ill.

W. W. Winterson, father of Ed. Winterson, returned Tuesday from an extended trip to the Pacific coast.

Samuel Pieser has gone to West Baden with his brother E. E. Pieser. E. H. Hunt has opened a retail seed store at his old stand, No. 68 Lake street, near State.

Visiting Chicago: G. V. Van Zanten, Jr., representing Van Zanten Bros., Holland; C. B. Whitnall, Milwaukee, Wis.; G. A. Kuhl, Pekin, Ill.; S. W. Pike, St. Charles, Ill.; H. M. Sanders, Spokane, Wash., returning home from an eastern trip; Geo. M. Bradt, of Chattanooga, Tenn., publisher and proprietor *Southern Florist and Gardener*; Mr. J. F. Hieky, of Denver; W. H. Gullett, Lincoln, Ill.

### St. Louis.

ANNUAL CARNATION MEETING.—TRADE STEADY.—VIOLETS TAKE A DROP.—CARNATIONS HOLDING THEIR OWN.—FRANK BUCKSAHNT SUSPENDS BUSINESS.—VISITORS.

The annual carnation meeting of the St. Louis Florists' Club was held on Thursday, the 10th, and was unusually well attended.

Thirty-two members were present when the meeting was called to order, and their number was augmented by late arrivals. The routine business was quickly disposed of so as to give the carnations the floor. The committee having had the "smoker" in charge reported, and the deficit was shouldered by the club treasury. W. G. Hueke, L. A. Michel and F. H. Weber were elected to membership in the club.

A communication from the Trans-Mississippi Exposition was read relative to the florists of our club and state joining with them in making the exposition a success, a committee consisting of

N. C. Young, J. J. Bencke and R. F. Tesson, with the assistance of the secretary of the club, Mr. Emil Schray, were appointed to communicate with the exposition management relative to our making a display at Omaha, and also to make arrangements for clubs going west to pass through St. Louis.

A recess was taken to give the committee appointed time to pass on the carnations shown; they reported as follows: Certificates awarded to White Cloud and Gold Nugget, shown by F. Dorner & Sons Co.; Frances Joost, shown by C. Besold; Empress, shown by Wm. Swayne; Kathleen Pantlind, from Hopp & Lemke, and Alba superba from John Burton. These new varieties were all shown in good shape. A plant of Kathleen Pantlind was also shown and the growth very favorably commented upon. Argyle and Evelina were also shown by their growers in fine style, but were not certificated as they had secured the clubs' certificate when shown at the chrysanthemum show. The principal interest centered in the whites, and it was a hard matter for the different growers to make a choice. Evelina, however, seemed to have a shade the best of the question.

J. F. Anuman, of Edwardsville, showed a fine vase of Daybreak and Scott; John Steidle, of St. Louis Co., showed three fine vases of assorted varieties, also a deep colored sport from Daybreak; H. F. Aue, W. Trillow, F. J. Fillmore and H. G. Ude each showed some fine blooms in assorted vases. The meeting was certainly a success, and the men interested enough to forward their flowers for exhibition should reap the benefits of their liberality in orders. Bidding for the stock at the close of the meeting was spirited, the best price realized being \$4.05 for vase of 60 Mrs. Geo. Bradt, shown by Fred Dorner & Sons Co.

After the meeting most of the members adjourned to the bowling alleys where several lively games were indulged in.

Trade has held its own very well considering the warm weather. *Harrisii* are plentiful and violets have taken a drop since the frames came into bearing, Californias selling at 10 and 20 cents per 100, Carnations are holding their own remarkably well, and have not been in over supply during the week.

Frank Bucksahnt, doing business at 2602 Olive street, closed last Saturday; this makes two suspensions in the past week.

Fred Dorner, Jr., was with us during the past week, and Joe Rolker, of August Rolker & Sons, is in town R. F. T.

### Denver.

Daniels & Fisher, a large department store here, have purchased several of the largest greenhouses in Colorado and also the Colorado Florists' Exchange Co. and are doing a large wholesale and retail business. Mr. A. M. Lewis, former manager of the Exchange, has been secured to take charge of the wholesale department.

The death of Harrison H. Given, which occurred at his mother's rooms in the Charles block, was a very sad ending of a useful life. Since last October he has had a continual run of family trouble, and in December his wife secured a divorce from him. He did not resist the application, but from that time has acted strange and has constantly talked of his family affairs.

He had been engaged in the floral business for many years, having purchased the greenhouses and store of J. L. Russell, and establishing his business under the firm name of "The Harrison H. Given Floral Co."

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**Our Spring Number.**

April 2 will be the date of the issue of the Easter or spring number of the AMERICAN FLORIST. Nurserymen and seedsmen will be specially represented, and should not fail to place an advertisement in its columns. When it is considered that 13,000 persons directly interested in and connected with the trade will be reached, the advantages of being represented in the advertising pages will be apparent. Copy for advertisements should be sent early, thereby ensuring better attention than can possibly be given at a later date.

**W. K. Harris' Experience with Jadoo.**

Your request for my experience with Jadoo received.

My first acquaintance with Jadoo was through Mr. Craig, he having had some and used it on some plants. Their root action was so quick and strong in Jadoo that he thought so good a friend as I should not miss this wonderful discovery. So he ordered a ton of Jadoo and one-half barrel of Jadoo liquid for me without consulting me, thus strengthening the already strong friendship I had for my friend; for it is a "true friend" who would give such a supposed discovery to his competitor in business.

So, well provided with this "Plant Elixir," I began operations at once. We potted twenty-five rubbers from 4-inch pots to 6-inch pots, with about 200 in ordinary soil, and set them together. The Jadoo rubbers made the first and best start, but in six weeks they were behind those planted in the ordinary soil. We tried some Pandanus Veitchii in Jadoo and they seemed not to like their diet, and in thirteen months' time were a sad looking lot. We tried two Dracena Baptistii and one in soil. The one in soil grew very fine; the two in Jadoo did not grow at all, and in three months' time were almost dead. We took them out of Jadoo and potted them in soil and they soon recovered.

We potted 100 Areca lutescens from small pots to 4-inch pots in Jadoo. They looked well for about three weeks; they then began to lag, and soon were quite indisposed, and to-day they are the worst looking lot of many thousands of the same age. We planted some Pandanus utilis from 6-inch pots to 8-inch pots without removing the soil from the roots, and they seemed to grow about as well as those potted in soil.

We potted 100 Dracena Sanderiana (five plants in a pot) from small pots into 6-inch pots, with the 6-inch pots half filled with the Jadoo. They at once became sick, and I think they would soon have departed this life if I had not removed them from Jadoo. I tried to force three lots of Lily of the valley pips (1000 pips in each lot) in the same Jadoo. The first lot came out fully as well, perhaps a little better, than those forced in sand. The

second lot was not quite so good; and the third lot were no good at all. I have tried Jadoo on several other plants with similar results, and in no case have I found it any better than ordinary compost, but very often a decided injury.

To sum up the whole thing, I would say that I never had much faith in Jadoo nor any other particular compost for all plants, for different plants require different soils to thrive in. For instance, if I wanted to grow a cranberry I would go to the bogs for soil, and if I wanted to grow a rose I would go to the pasture fields for soil.

In regard to Jadoo liquid, I have not made enough experiments to give an opinion as to its merits, for I use but little manure water in growing my plants, because it adds expense to apply it. Instead I enrich my soil so that most of my plants need no liquid fertilizers to bring them to maturity. WM. K. HARRIS.

Philadelphia.

**Mr. Craig's Experience with Jadoo.**

ED. AM. FLORIST.—Your request for a report on the results of our experiments with Jadoo is received. We first tried it in the summer of 1896, and in response to an inquiry from the Jadoo Company I sent them the following letter on November 30, 1896: "We tried ferns, cyclamens, palms and crotons in Jadoo. We could notice no better growth in the three first named than when grown in our ordinary compost, but the crotons did do surprisingly well, making large vigorous plants in comparatively small pots; I want to try some more of it, if not too expensive. What is it worth by the ton?"

Since that time we have been experimenting almost constantly and have used in all about four tons of Jadoo and more than a cask of the liquid. We have tried them on many kinds of palms and with ferns in variety, pandanus, dracenas, ficus, begonias, cyclamens, etc., and must say that it does not compare with the ordinary good compost, which has the advantage of costing less than one-fifth as much. Some few kinds of plants make roots very freely in it, and grow vigorously for a short time, but its strength seems soon to be exhausted and the rapid growth ceases. In the case of ficus, pandanus in variety, dracenas, latanias, arecas, kentias and other palms, we have made careful comparisons between plants grown in Jadoo and similar plants grown in our ordinary compost, with the advantage, especially after the first three months, entirely in favor of the latter. In the case of crotons, begonias and other quick growing plants, Jadoo is likely to create a favorable impression at first, as plants of this character root freely in it, and for two or three months grow vigorously, but after that length of time I feel sure that compost, such as is used generally by our good growers, will give more permanent good results.

For the purpose of striking cuttings I cannot discover that it has any advantage over clean sand, and it is not so convenient to work with as the latter. On the whole, after an extended trial, I consider it of but little use to the commercial grower. ROBERT CRAIG.

**About Jadoo.**

Can you give me the experience of those who have used Jadoo? Will it pay to use or does it cost too high? QUERIST.  
Rochester, N. Y.

Replying to above, I have used the Jadoo on a variety of plants. One of my

first experiments with it was with the seed of Areca lutescens. The seed was sown in a variety of composts. Our own mixture is the loam we have here, which is fairly good soil for most plants when well rotted. Cow and horse manure in about equal proportions is added, and also some cocoanut fibre. The Jadoo above referred to and what we call hereabouts Jersey peat, and the latter material proved to be the best, that is to say, the seeds germinated quicker and the plants maintained a richer dark green color all through until they were potted from the seed pots—after which time we did not attempt to keep track of them. I also tried sprouting lima beans in the different mixtures, and in the Jadoo the germination was the most sluggish of any. I have since thought, in trying to account for the difference, that the Jadoo, being very dry when received, possibly needed more water than was given.

In other experiments, notably with Adiantum Farleyense, we found that the difference was against the use of Jadoo, and in favor of our own mixture. I have also tried it on crotons, in comparison with our own soil and a mixture of peat moss—which may be termed the base of Jadoo—and the fine screenings from coal ashes; the sieve used to screen them through was a half-inch mesh, and the crotons grew finely in both the Jadoo and in the peat moss with the coal ashes mixed therein.

Generally speaking, Jadoo is safe to use for most plants. I have been informed, however, that some of the pandanus do not thrive in it. Since hearing that report I have potted Pandanus Veitchii in peat moss, and so far no deleterious effects are perceptible. Messrs. W. Atlee Burpee & Co.'s new sweet pea, Pink Cupid, was sown in Jadoo, some in peat moss, others in Jersey peat, and some also in our own soil, and the results in all cases were practically the same. Another experiment was made with plain peat moss and Jadoo in comparison; and the plants used were Aglaonema pictum and Curmeria Wallisii, and no difference whatever was noticeable. The root action in both cases was excellent.

Jadoo has been spoken of as a good medium for propagating purposes. I do not doubt that it may be, but it cannot be any better for that purpose than is peat moss. Its lumpy unwieldy nature, however, is troublesome to get into the proper condition in which to insert cuttings. We have found it necessary to chop it up with a hatchet and rub it through a screen or sieve before it could be conveniently used for the purpose indicated, and that takes much valuable time, and when good, clean sand may generally be obtainable there can be no advantage in its use for propagating purposes. Its cost is against its use for general purposes, though possibly for some special uses it may be all right.

EDWIN LONSDALE.

Am also asked: "How about Jadoo for carnations and roses? Is it what it is claimed to be?"

I must confess that I did not try the material upon either roses or carnations, because I am under the impression that both the classes of plants inquired about need what gardeners and florists know as a stiffer, more loamy soil in which to grow and flower. Others may have tried it, and if so, a report as to the results through your columns would possibly be of interest to others as well as E. L.

Prof. Butz, of State College, Pa., when at the Farmers' Institute recently held in Philadelphia, in answering the question: "What is the difference, if any, between peat moss and Jadoo?" said, "Jadoo is a patented article intended to be used in the place of soil for potting plants, as it is claimed that it supplies all the elements of plant food. In our experiments with it in the greenhouses at State College, some plants did thrive remarkably in it, while others seemed to go backwards. The experiments were not carried very far, as it did not seem to answer very well for growing some plants. An abutilon was potted into this material and another in ordinary soil. The one in Jadoo soon turned yellow and the leaves dropped. Nor did it seem to suit coleus, ferns and Rex begonias; whereas some other plants grew very rapidly in it and made a great quantity of roots. Seeds that were planted in this material showed no marked advantage over the same seeds grown in the ordinary potting soil. Crotons are plants that have been highly spoken of as doing well in this material, but in every case, with us, they dropped their leaves. I can hardly realize that Jadoo will ever take the place of soil to be used in the potting of plants." E. L.

**Asters.**

ED. AM. FLORIST:—Will you please state when is the earliest I can get Victoria asters in bloom? They are in 2-inch pots now and are good plants. Will plant them under glass. E. L. T.

In reply to above question about asters, the experience of the writer in that matter has been somewhat limited. The only time I made an effort to bring them into bloom early was disastrous, for the plants became affected with a rust, similar to that which attacks verbenas, heliotrope and plants of a like nature, and which caused them to be thrown away, ending in a total failure. However, if those grown by "E. L. T." remain healthy they should bloom not later than the first week in June. The keeping of some classes of plants—of which the aster is one—under glass continuously, with the object in view of bringing them into flower earlier is not always attended with the best results. Some years ago we had to abandon the growing of asters on account of a black beetle, which destroyed the flowers. It was not until the plan was hit upon to lift the plants just as they commenced to show the color of their petals and transplanted them to the greenhouse that we circumvented his beetleship, and produced fine flowers. They lifted very readily with us, having a mass of fibrous roots, and with careful shading and frequent sprinkling in bright sunny weather, they soon commenced to develop their flowers, which I have often thought were produced with a better finish to them than were those which bloomed in the dryer atmosphere outdoors. E. L.

**Pittsburg.**

The business situation remains in a quiet condition, the Lenten season having had the usual quieting effect. Stock is very plentiful and of almost uniformly good quality, prices at retail remaining unchanged, and likely to stay at present rates until the Easter advance.

The Pittsburg and Allegheny Florists' and Gardeners' Club met on Thursday, the 10th inst., and changed the time of the meeting to the first Monday of each

month after the first of April, instead of the second and fourth Thursday of each month as at present. On the 24th they will have an exhibition of and a discussion on carnations. The exhibit promises to be very fine; several of the principal growers outside of Pittsburg will contribute to it.

Mr. David Aten, Toronto, Ont., Wm. Hageman, of Philadelphia, Pa., and J. W. Glenn, of Kittaning, Pa., were visitors this week. REGIA.

WASHINGTON.—John H. Small & Sons Company have been incorporated with a capital stock of \$31,500.

LANCASTER, PA.—J. P. Siebold has been sued by Josephine Schilling, from whom he rents his place, for damages caused by the erection of hothouses and digging up the ground.

**SITUATIONS, WANTS, FOR SALE.**

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By an experienced gardener and florist on private or commercial place; age 33, married. Best of references. W. R. care American Florist.

**SITUATION WANTED**—Where first-class stock is grown. Best of references from past and present employers; age 24; state wages, etc. W. D. care W. W. Coles, Kokomo, Ind.

**SITUATION WANTED**—A good place in or about Chicago for a strong, healthy boy of 15 years, to serve as apprentice. GUSTAV A. ERNST, 249 Kensington Ave., Chicago.

**SITUATION WANTED**—A No. 1 grower of roses, carnations, mums, etc.; sober and steady; competent to take charge; prefer the west. Address N. N. care American Florist.

**SITUATION WANTED**—By a first-class, all-round florist; German, age 30, single; commercial or private place. Address HENRY SCHNEIDER, care C. JACOBS, 610 Chestnut St., Milwaukee, Wis.

**SITUATION WANTED**—By first-class young married florist on private grounds; understands fruits, flowers and vegetables. Best references. Address F. 246 Michigan Ave., Chicago.

**SITUATION WANTED**—As private gardener in charge of gentleman's grounds; thoroughly competent in all details of landscape gardening or flower store. E. W. care American Florist.

**SITUATION WANTED**—By practical florist, single, 10 years' experience, good knowledge of floral work, New York state preferred. References. State wages. Address E. care American Florist.

**SITUATION WANTED**—By first-class all-round florist, German, single, 16 years' experience. Good grower of roses, carnations, mums, violets, palms, ferns and general stock. Address S. 824 Milwaukee Ave., Chicago.

**SITUATION WANTED**—By middle-aged gardener and florist with large experience in this country and Europe, especially in greenhouse culture of all kinds, private place preferred. Address E. M. care American Florist.

**SITUATION WANTED**—By an experienced grower of florists' stock, roses and carnations a specialty, as foreman, will invest \$500 in place if a live one and near a good market. For particulars address BUSINESS PARTNER, care American Florist.

**SITUATION WANTED**—By a well-experienced foreman, a hustler, good manager, first-class rose and cut flower grower. Best of references. Only first-class parties need apply. open for engagement to suit employer. Address FOREMAN, care Am. Florist.

**SITUATION WANTED**—A foreman; 16 years' experience in growing roses, carnations, violets and all kinds of tropical plants; strictly temperate, married; state wages paid and particulars. Good references on application. FLORIST, 28 Oak St. Bridgeport, Conn.

**SITUATION WANTED**—By young single man, general commercial place, 11 years' experience, all branches England and America; specialties roses and carnations, sober and reliable. References. State particulars and wages. HARRY BONSILLA, 25 Pawtucket Ave., Pawtucket, R. I.

**SITUATION WANTED**—By an experienced land scape gardener, German, 3 years old, 16 years at the business grower of flowers, vegetables and fruits; specialty pleasure grounds and hothouses, position wanted in park or private residence. Best of references. Address CASSA, care Am. Florist.

**WANTED AT ONCE**—Assistant florist. Address GOOD HOME, care American Florist.

**WANTED**—Nurserymen's and florists' wholesale catalogues. Address M. D., care Am. Florist.

**WANTED**—A good florist for store and greenhouse. 11 N. BRUNS, 330 W. Van Buren St., Chicago.

**WANTED**—The address of Carl Jorjenseon, Dane Amager. Address I. JENSEN, South Butte, Mont.

**WANTED**—The P. O. address of Geo. H. Bond; formerly in New Jersey. ASHER M. COE, Coe Ridge, O.

**WANTED**—An all-round good florist clerk. Wages \$12 per week. Address A B C, care American Florist.

**WANTED**—One or two first-class young workmen; good, all-round greenhouse men. Address CROWN HILL GREENHOUSE, 3408 Senate Ave., Indianapolis, Ind.

**WANTED**—Good, reliable and experienced man as second in greenhouse work, making up designs, bedding, etc. Must furnish references. Single man preferred. Address J. N. KIDD, St. Joseph, Mo.

**WANTED AT ONCE**—A florist (German and single); wages for the first two months \$20 and after that \$25, board and washing included. Steady work year round. MRS. A. SENFF, Menominee, Mich.

**WANTED**—Competent foreman on commercial place to grow roses, carnations, violets, mums and general florists' cut flower stock. State wages expected and give references. HARVEY & CO., 5 W. Broad, Richmond, Va.

**WANTED**—A young man accustomed to growing celery, onions and asparagus, and who is willing and capable of making himself useful around greenhouses. Good place, with chance for promotion. H. A. LINDSAY, Birmingham, Ala.

**FOR SALE**—600 feet 4-inch cast iron pipe; 38 boxes 10x12 double A glass. 175, care Am. Florist.

**FOR SALE OR RENT**—Seven greenhouses on West Foster Avenue, Chicago. Apply to John Letuan or next door.

**FOR SALE**—Greenhouses on principal street in the city. For particulars apply to J. H. REISTOCK, 584 Main St., Buffalo, N. Y.

**FOR RENT**—Klondike here! 8000 feet glass, stocked with roses and carnations \$25 per month; immediate possession. 1011 N. 5th St., Reading, Pa.

**FOR SALE**—Cheap for cash, an old established florist and seed store drawing good business; owner has two places. 174, care American Florist.

**FOR RENT OR SALE**—Three greenhouses and residence on lot 10x165 feet at Rogers Park, Ill. Address or call on P. G., Room 6, 127 Wells St., Chicago.

**FOR SALE OR RENT CHEAP**—Six well-stocked greenhouses, dwelling, etc. Best R. R. facilities, no competition. Renson, poor health. W. L. WISS, White Hall, Ill.

**FOR SALE**—An old-established florist business. Greenhouses well stocked; residence, outbuildings, 50 acres of land, on the line of R. R.; would sell before Easter for benefit of Easter trade. Death cause of selling. A. M. care American Florist.

**FOR SALE.**

One dwelling house, two greenhouses 17x50, newly built, well located and good home trade, on street car line near city of 30,000 population. For particulars address H. S. care American Florist.

**FOR SALE.**

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write A. LEUBNER, Wausau, Wis.

**Situation Wanted.**

A COMPETENT MANAGER of thorough ability and over 20 years' practical experience desires a position to take entire charge of private estate, park or first class commercial place; an experienced cultivator of palms, orchids, florists' stock in general, shrubbery, fruit and vegetables; a good floral decorator. Thoroughly reliable, married, with small family. Good wages required. Address

FLORIST, care S. J. Nelson, 206 E. 28th St., New York.

**Here is a Rare Opportunity** \$800 will buy complete flower store, including stock, elaborate fixtures, a well stocked conservatory, etc., in a city of half a million inhabitants. An old established stand. Speak quick if interested. For particulars address S, care American Florist.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

**Chrysanthemums.**

Propagation should be now well under way, especially of the varieties which are slow in propagating, or of which stock is scarce.

Every wide-awake grower should try a few of the new varieties each year; one or two plants, at least, of a half dozen of the most promising sorts. If these have not been ordered, they should be at once. The tabulated results of the work of the chrysanthemum committees (published in the December 25 issue of the AMERICAN FLORIST) are the most reliable guide in considering the purchase of varieties which the buyer has not seen in flower.

Any variety which has been recommended for a certificate by a number of committees is generally a safe purchase for trial.

The bulk of the stock grown, however, should be of varieties which have been tested successfully by the grower himself. A variety which may succeed under one system of culture may be a failure in the hands of another good grower, and it is much easier to grow those which are adapted to one's methods, than to try and change those methods to suit a particular variety.

In deciding on what to grow three things are to be considered, and they are of about equal importance. Does the variety do well with the grower? Does it produce a large proportion of perfect blooms? And does it sell well in his market?

Varieties which throw a large percentage of malformed blooms have to bring a very large price to keep up with the cheaper but surer varieties. The true comparative test of values is the number of perfect blooms which can be had from 100 square feet of bench multiplied by the price which a perfect bloom will bring. Judged on this basis many an apparently valuable variety has made but a sorry showing alongside of its more modest neighbor.

When close planting is practiced and moderate sized blooms desired, varieties with large heavy foliage should not be used.

It has been prophesied for some years that the chrysanthemum craze was on the wane, but facts will hardly justify such prophesies. There will always be a demand, at least in the larger markets for fancy chrysanthemums, at good prices generally. Of course they will have their off seasons, as do all other flowers, and overproduction, as in other lines, will have serious effect on common and medium stock, but this is also the case with roses and carnations, and the careful grower will not be scared out of the chrysanthemum business for some time yet. X.

**Asparagus Plumosus Nanns.**

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

**H-L-SUNDERBRUCH CO.**  
**WHOLESALE COMMISSION FLORISTS**  
 4th and WALNUT STS.  
**CINCINNATI, O.**  
 CONSIGNMENTS SOLICITED  
 SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

BIRMINGHAM, ALA.—Mrs. H. A. Lindsay recently purchased a tract of seven acres of land on which she intends to erect a new and thoroughly modern range of greenhouses, consisting of about 12,000 feet of glass.

**Wholesale Flower Markets**

CINCINNATI, March 17.

Rosea, Beauties select	25 00@ 35.00
" " medium	10 00@ 20.00
" Brides	5 00@ 6.00
" Bridesmaids	5 00@ 6.00
" Meteors	5 00@ 8.00
" Perles	4 00@ 5.00
Carnations	1 50
" fancy	2.00@ 3.00
Lily of the valley	3.00
Romans	2.00@ 3.00
Narcissus	3.00
Daffodils	3.00
Violets	50
Harrisell	10.00@ 12.50
Callas	8.00@ 10.00
Tulips	3.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, March 17.

Rosea, Beauties	2 00@ 35 00
" Meteors	2 00@ 6 00
" Brides, Bridesmaids	2 00@ 6 00
" Perles	2 00@ 4 00
" Wootton	2 00@ 3 00
" La France	2 00@ 6 00
" Kaiserin	2 00@ 6 00
" Carnot	2 00@ 6 00
Carnations	1 50@ 4 00
Violets, California	.50
" single	.08
Lily of the valley	2 00
Harrisell	10 00@ 12 00
Callas	8 00@ 10 00
Tulips	3 00@ 5 00
Narcissus, Romans	1 00@ 2 00
Smilax	10 00@ 15 00
Freelas	2 00@ 2 50

MILWAUKEE, March 18.

Rosea, Beauties	per dozen 1.00@4.00
" Brides, Bridesmaids	3 00@ 5 00
" Perle, Belle	3 00@ 6 00
" Meteora	3 00@ 6 00
Carnations	1 00@ 2 50
Violets	.50@ .75
Romans	2 00@ 3 00
Lily of the valley	3 00@ 4 00
Freelas	2 00@ 3 00
Tulips, Hyacinths	3 00@ 4 00
Yon Slons, Jonquils	2 00@ 3 10
Callas, Harrisell	10 00@ 12 50
Smilax	15 00

BUFFALO, March 17.

Rosea, Beauties	10 00@ 50 00
" Brides, Bridesmaids, Meteors	3 00@ 6 00
" Perles	2 00@ 3 00
" Niphotos	2 00@ 3 00
" Kaiserin, Mermets	5 00@ 8 00
Carnations extra	2 00@ 3 00
" ordinary	1 00@ 1 50
Lily of the valley	3 00@ 4 00
Violets	50@ 1 00
Romans	2 00@ 4 00
Harrisell	6 00@ 10 00
Smilax	12 50@ 15 00
Adiantum	1 25@ 1 50
Asparagus	30 00@ 75 00

COMPLETE LINE OF SUPPLIES  
 WIRE WORK  
 WE MAKE IT  
 IMPORTERS OF BULBS  
 PHONE 1273  
 BOX 75  
 ALWAYS ON HAND FINE STOCK CUT FLOWERS  
 ELLIS & POLLWORTH  
 MILWAUKEE, WIS.

**REINBERG BROS.**  
 WHOLESALE GROWERS OF CUT FLOWERS.  
 500,000 FEET OF GLASS.  
 We can fill all orders on short notice with all leading varieties of Roses and Carnations.  
 We are Headquarters for fine AMERICAN BEAUTIES Give us a trial and convince yourself.  
 Salesroom, 51 Wabash Ave., CHICAGO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

**C. A. KUEHN,**  
**Wholesale Florist,**  
 1122 PINE STREET,  
**ST. LOUIS, MO.**  
 A complete line of Wire Designs.

**MOUND CITY CUT FLOWER CO.**  
 Wholesale Florists.  
**CONSIGNMENTS SOLICITED**  
 Special attention given to shipping orders  
 1322 Pine St., ST. LOUIS, MO.

**C. W. WORS**  
 2740 Olive Street,  
**ST. LOUIS, MO.**  
**FLOWERS** at  
 ...WHOLESALE...  
 ....ROSES, and a full line  
 Headquarters for the South West.....  
 When writing mention American Florist

**ST. LOUIS CUT FLOWER CO.**  
 Wholesale Florists  
**E. H. MICHEL**  
 1620 Olive St.  
**ST. LOUIS, MO.**

GIVE US A TRIAL. WE CAN PLEASE YOU.  
  
 ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.  
**WM. F. KASTING** WHOLESALE COMMISSION FLORIST...  
 495 Washington St., Buffalo, N. Y.  
 Also Dealer in Florists' Supplies and Wire Designs

W. A. MCFADDEN,  
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 NEAVE BUILDING, CINCINNATI.  
 Producers and Shippers of every description of High Class Floral Supplies.  
**CATTLEYAS and DENDROBIUM NOBILE.**  
 Quotations issued weekly, forwarded on request.

**HOLTON & HUNKEL CO.**  
 SUCCESSORS TO The Wisconsin Flower Exchange.  
 Fresh Cut Flowers, Florists' Supplies  
 Manufacturers of WIRE DESIGNS  
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 457 Milwaukee St., MILWAUKEE.

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
 WHOLESALE  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**KENNICOTT BROS. CO.**  
 WHOLESALE CUT FLOWERS  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE CHICAGO.

**E. C. AMLING,**  
 WHOLESALE  
**COMMISSION & FLORIST,**  
 51 WABASH AVENUE,  
 Consignments Solicited. CHICAGO.  
 Prompt attention to shipping orders.

**A. G. PRINCE & CO.**  
 Wholesale Cut Flowers  
 AND FLORISTS' SUPPLIES.  
 ROOTED GARNATION CUTTINGS  
 Albertini and Bridesmaid, \$2.00 per 100;  
 Daybreak, \$1.50 per 100; Lizzie McGowan,  
 Ivory, Lizzie Gilbert, Fred Dorner and  
 Rose Queen, \$8.00 per 1000.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us.  
 WIRE DESIGNS: A Full Line. Write us for  
 our Illustrated Catalogue.

**Vaughan, McKellar & Winterson**  
 WHOLESALE  
 FLORISTS SUPPLIES  
 FLORISTS SEEDS  
 SPRING BULBS  
**Cut Flowers**  
 All the leading varieties in Carnation Rooted Cuttings  
 Best varieties of Young Roses in 2 1/2-in. Pots.  
 Fine well cured Pearl Tuberosa Bulbs, per 1000.....\$ 7.50  
 Extra fine mixed Gladioli Bulbs, per 1000..... 12.50  
 Fine mixed Gladioli Bulbs, per 1000..... 7.50  
 SEND FOR CATALOGUE.  
 Vaughan, McKellar & Winterson, - 45-47-49 Wabash Ave., Chicago.

**Wholesale Flower Markets**  
 CHICAGO, March 18.  
 Roses, Beutles.....per doz. 1.00@4.00  
 " Brides..... 3.00@ 5.00  
 " Meteors, Bridesmaids, Kaiserin..... 3.00@ 5.00  
 " Perle, Gontiers..... 1.00@ 3.00  
 " La France, Testout..... 4.00@ 8.00  
 Carnations, common..... 1.00@ 2.00  
 " fancy..... 2.00@ 5.00  
 Violets..... 40c@ .40  
 Narcissus, Romans..... 2.00@ 3.00  
 Callas..... 8.00  
 Harriell..... 6.00@ 8.00  
 Lily of the valley..... 2.00@ 3.00  
 Tulips..... 1.00@ 2.00  
 Von Slons..... 3.00@ 5.00  
 Hyacinths..... 1.00  
 Adiantum..... 10.00@12.00  
 Smilax..... 40.00@75.00  
 Asparagus.....

**W. E. LYNCH,**  
 Consignments Solicited. **CUT FLOWERS,**  
 All Florists' Supplies.  
 19 & 21 RANDOLPH STREET,  
 Fine Stock a Specialty. CHICAGO.

**A. L. RANDALL**  
 Wholesale Florist  
 DON'T FORGET that we are at the old number,  
 126 Dearborn St., Chicago.  
 Write for special quotations on large orders.

**ILLINOIS CUT FLOWER CO.**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**N. Y. CUT FLOWER EXCHANGE**  
 404-412 E. 34th St. Near Farry.  
 Open for Cut Flower Sales at 6 o'clock  
 Every Morning.....  
 DESIRABLE WALL SPACE TO RENT  
 FOR ADVERTISING.  
 JOHN DONALDSON, Secretary.

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**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1075 38th St.

**THE NEW YORK CUT FLOWER CO.**  
 119 and 121 West 23d Street,  
 112 and 114 West 24th Street,  
 Telephone 733-181h. NEW YORK.  
 CONSIGNMENTS SOLICITED.  
 Special Attention Given to Shipping Orders.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of  
**CUT FLOWERS,**  
 51 WABASH AVENUE,  
 CHICAGO.  
 HEADQUARTERS FOR AMERICAN BEAUTIES.

BUY YOUR FLOWERS DIRECT FROM THE GROWERS

**Bassett & Washburn** WE HAVE 50,000 American Beauty Plants  
 10 CUT FLOWERS FROM

Rooted Cuttings  
 Orders filled in rotation. All Cuttings guaranteed first-class.  
 Growers of and Dealers in....  
**Cut Flowers at Wholesale**

ROSES.  
 BRIDES, BRIDESMAIDS, METEORS, N. Y. CUT FLOWER EXCHANGE  
**\$1.50**  
 PER HUNDRED.  
 CARNATIONS.  
 TRIUMPH \$2.00 per 100, \$25.00 per 1000  
 DAYBREAK 1.50 12.50  
 HARRISON'S White 1.00  
 MINNIE COOK 1.00 12.50  
 ROSE QUEEN 1.50 12.50  
 SCOTT 1.00 7.50

ASPARAGUS PUMOSUS 40c a string.  
 SMILAX \$2.00 per doz. strings.  
 All Florists' Supplies.  
**BASSETT & WASHBURN,**  
 greenhouse and Residence, Store: 88 Wabash Ave., CHICAGO, ILL.  
 HINSDALE, ILL.  
 Long Distance Phone No. 10. Long Distance Phone Main 223.



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**Commission Dealer in Cut Flowers,**  
 44 WEST 29TH STREET,  
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 THE BEST MARKET IN NEW YORK.  
 Phone 1307 38th St.

**TRAENDLY & SCHENCK,**  
**Wholesale Florists,**  
 Control the stock of many celebrated growers and  
 are prepared to quote prices on First Grade  
 Cut Flowers. All varieties.  
 38 West 28th St., and Cut Flower Exchange,  
 Tel. 961 18th Street. NEW YORK CITY.

**FRED. EHRET,**  
**Wholesale Florist,**  
 No. 1403 Fairmount Avenue,  
 Telephone. Long Distance. PHILADELPHIA.

**Wholesale Flower Markets**

NEW YORK, March 16.

Roses, Beauties.....	6 00@40.00
" Brides, Bridesmaids.....	2 00@ 6.00
" Teatout, Carnot.....	3 00@ 8.00
" Morgana, Meteor.....	2 00@ 6.00
Carnations.....	1 00@ 1.50
" fancy.....	1 50@ 3.00
Lily of the valley.....	1 00 @ 2.00
Mignonette.....	2 00@ 4.00
Violets.....	.15@ .30
Harrist, Calla.....	4 00@ 5.00
Daffodils, Tulips.....	1 50@ 2.00

BOSTON, March 15.

Roses, Beauties.....	10 00@35.00
" Bruners.....	6 00@25.00
" Perle, Niphotos.....	2 00@ 4.00
" Brides, Bridesmaids, Carnot.....	2 00@ 8.00
" Morgana, Meteor.....	4 00@ 6.00
Carnations.....	.75@ 3.00
Lily of the valley, Daffodils.....	1 00@ 2.00
Violets.....	.25@ .40
Harrist, Calla.....	5 00@ 8.00
Tulips.....	1 50@ 3.00

PHILADELPHIA March 16.

Roses, Beauties, select.....	40.00@50.00
" " medium.....	6 00@15.00
" Bruners.....	16 00@35.00
" Teas.....	4 00@12.00
Carnations.....	1 00@ 1.50
" fancy.....	2 00@ 3.00
Lily of the valley.....	3 00@ 4.00
Violets.....	.15@ .50
Narcissus.....	3 00@ 4.00
Hyacinth.....	2 00@ 3.00
Harrist.....	8 00@10.00
Sullax.....	12 00@15.00

**John I. Raynor,**  
 49 WEST 28th STREET,  
 —NEW YORK.

**SPECIAL EXTRA STOCK OF**  
 AM. BEAUTY, METEOR,  
 BRIDESMAID, BRIDE.  
**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

**THOS. YOUNG, JR.**  
 \* \* Wholesale Florist

43 West 28th Street, New York.  
**WALTER F. SHERIDAN,**  
 WHOLESALE  
**FLORIST,**  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
 returns for their stock at...

**JULIUS LANG'S**  
 53 W. 30th Street, - NEW YORK.

**Edward C. Horan,**  
 34 W. 29th Street, NEW YORK,  
**WHOLESALE • FLORIST.**

Careful Shipping to all parts of the country  
 Price list on application.

**WM. C. SMITH,**  
 Wholesale Florist,  
 40 So. 16th St., PHILADELPHIA.  
 Consignments Solicited. Special attention given to  
 shipping orders.  
 Long Distance Telephone 5008 A.

**CITY HALL CUT FLOWER MARKET,** 9 Chapman Place, 15 Province Street,  
**BOSTON, MASS.**  
**WELCH BROS., PROPRIETORS.**  
 Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported  
 weekly; payments monthly, or oftener if required.  
**THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.**

**J. K. ALLEN,**  
**Wholesale Florist.**  
 WHITE VIOLETS, finest quality.  
 EXTRA ROSES and other desirable specialties.  
 57 West 28th Street,  
 Long Distance Telephone 382-38th St. NEW YORK.

**GALVIN & CO.**  
**Wholesale Florists**  
 AND DEALERS IN ALL  
 FLORISTS' SUPPLIES.  
 4 Ordway Place, BOSTON, MASS.  
 Cut Flower Consignments Solicited. Best market.

**GEORGE A. SUTHERLAND,**  
**Cut Flowers AND Florists' Supplies**  
**WHOLESALE.**  
 67 Bromfield St., BOSTON, MASS.

**Wholesale Florists** **JOBBERS IN**  
 ALWAYS ON HAND: **FLORIST'S**  
 CARNATIONS, BRIDESMAIDS, BRIDES. **SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Auctioneers.  
 N. F. McCarthy  
 84 HAWLEY STREET, - BOSTON.

**JOHN YOUNG,**  
**ROSES, CARNATIONS, VALLEY**  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.

**FRANK MILLANG,**  
**CUT FLOWERS,**  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 Cut Flower Exchange, NEW YORK.



**Milwaukee.**

All florists having some glass of their own, have more or less of a supply of potted stock, principally bulbous plants and azaleas, the demand being a trifle below par since Lent began; they are not purchasing the usual quantity of roses and carnations, the consequence is a surplus of common stock, the choice continues to clean out.

Holton & Hunkle Co. have increased their counter space and are making other improvements.

Duester & Son are receiving many congratulations upon the success they have attained this season in producing roses and carnations. The stock they are sending in to Holton & Hunkle is very fine.

Ellis & Pollworth's five houses are in very good condition, largely kentias and arecas of moderate size, and the smaller sizes of latanias, with Pandanus Veitchii, ficus and ferns. They are starting a few thousand palm seeds and are cutting a nice lot of bulb stock. They will have a large lot of Spiraea Japonica in for Easter but no Easter lilies.

Mr. Fred Schmelling has his place in good order; a few of his roses are a trifle yellow, as if over-watered, but full of good strong young growth. His carnations all indicate a good continuous crop; his cutting benches are full. The condition of potted plants indicates a careful preparation for spring trade.

Mr. John Dunlop has just started a hot-bed for cannas, and has a good assortment of stock for retail plant trade. His carnations are good. He complains like Mr. Schmelling of the Harrisii lilies being diseased; they are for the most part a dismal failure and will be short for Easter.

Robert Currie's three houses are in excellent condition, with carnations and violets.

Whitnall Floral Co. have a nice lot of lilacs and Spiraea Van Houttei which promises well for Easter; Harrisii lilies will be in time; the longiflorum will come in after Easter. Spiraea Anthony Waterer will be on time.

In calling to see Mr. Von Oven we found Mr. Geo. Ringrose in possession. His carnations, as usual, are in good condition. There is a nice assortment of retail stock, and the finest looking bench of sweet peas in this city, which will no doubt be in for Easter.

Mr. Stapes' place contains about the same proportion of carnations and roses. The carnations are very good, the roses a trifle inferior to what we have been accustomed to see on his place. A small crop of lilies are in fair condition.

Mr. W. M. Brauch, a former employe of Mr. F. Dilger, has leased the old plant on the corner of Vleit and Forty-second streets formerly occupied by Mr. Rights. He took hold of the place very late in the fall, after frost, with the weeds growing out through the roof, rather a discouraging outlook at the time, but has succeeded in getting things in order and will have a fair crop of spring stock.

Mr. Right is located on Western avenue, where he has built two greenhouses of his own, one of which he has planted with carnations and the other contains a general assortment of odds and ends useful in his retail store.

It was a pleasure to call on Mr. Fred Menger, Twenty-seventh street. The place is not large but almost a model. The office is as convenient and comfortable as if a florist had nothing to do with it. The cyclamens, cinerarias and longiflorum lilies are much finer than are commonly seen.

C. B. W.



## Bassett's Beauties

Bassett & Washburn  
Cut Flowers Wholesale  
Growers & Dealers,  
All Florists' Supplies  
88 Wabash Ave.  
Chicago.

### Marketing Cut Flowers.

*Paper read by J. T. Anthony before the Chicago Florist Club, February 21, 1898.*

How to dispose of cut flowers to the best advantage is a matter of great importance to every grower in small towns, or where greenhouses are situated in large centers of population. To sell them at retail at the greenhouse is the solution of this question. But in large cities the greenhouses must necessarily be several miles out in the country. In order to reach the retail purchasers or consumers, it has been found most convenient to have retail stores near the business centers and residence portions of the city to dispose of the stock. A few growers have stores in the city and retail the stock they grow, but a majority of the growers prefer to sell their flowers at wholesale, leaving to others who have made a study of that particular line, the business of retailing them. There is therefore two distinct branches of the cut flower business, the grower and the retailer.

Ten or fifteen years ago growers brought flowers in from the greenhouses three or four times a week, some of the larger or more pretentious ones in wagons, the smaller ones in boxes or baskets, and peddled them around from store to store until disposed of. At that time all the stores were concentrated within a radius of less than three miles from the center of the city. Now a radius of twelve miles would hardly cover them on account of the large number of stores and their distance apart, making it impossible to reach more than a limited number of them during the morning hours while flowers are being bought. The peddling of cut flowers is nearly obsolete in all of the large cities. Except a few large growers who have wholesale stores for the sale of their stock, practically all of the flowers grown in this vicinity are sold through commission firms, who have established themselves for the special purpose of selling cut flowers on commission. Whether the commission man has come to stay or is only a passing shadow in the grand panorama of changes that is taking place in the trade, time will determine. The ideal wholesale cut flower market has not yet been established and perhaps never will be. To dispose of cut flowers to the best advantage in the market as at present constituted, is the subject before us. The grower should place his stock in the hands of his agent, the commission man, in the best and most attractive form. All flowers should be carefully graded by the grower. At least two grades should be made of all flowers. In many cases more would be necessary. Especial care should be taken with all bunched flowers, every individual flower put in a bunch should be salable. Full count should be given in all cases and it would be better to put in twenty-six in place of twenty-five, to make up for a possible broken one.

American Beauty roses have sold better and have brought comparatively better prices for the past year or two than other roses. Is not this due in a great measure to the more careful grading of Beauty roses? I think it is. We will suppose you have twelve chrysanthemums. They may be all good flowers and of the same variety, but of assorted sizes. The smallest flower we will suppose would go with a grade that would sell readily for 10 cents each, the largest, a big double flower, worth 40 cents; the average price would be 25 cents each, or \$3 per dozen. Would not \$2 per dozen be a good price for such a dozen flowers. One dollar is lost to the grower by not

having the flowers properly graded, and perhaps the party purchasing them is not so well satisfied as he would have been with an even grade of flowers that would not be worth over \$2 per dozen. I am satisfied that many chrysanthemum growers have lost nearly one-third of the value of their flowers by not grading them in varieties and size of flowers. If these are the facts with the American Beauties and chrysanthemums, why do they not apply to all other flowers?

The grower's agent, the commission man, recognizes the importance of having stock graded, though he may sell the grower's carnations, as put up by him under his nom de plume of Nos. 20, 40 or 80, that is twenty good, salable flowers, two fair flowers, but short stems, three so badly split as to be worthless, for a for a bunch of twenty-five. Still when he ships them out of the city under his own name or firm name, that is entirely different. His own name is at stake. He cannot fall back behind Mr. 20, 40 or 80, so when he packs a box of 100 carnations to ship out of the city, there are 100 good salable flowers put in the box, no matter how many bunches of twenty-five it takes to make up the number.

Roses are scarcely ever sold without being graded, though the work is seldom done by the grower at the greenhouse, as it should have been. Who has not seen several hundred roses piled on a wholesale counter ungraded, and of all kinds and colors, in the rush hours of the morning when flowers are coming in and customers are waiting for them. Everybody is in a hurry. There is no time to take care of stock. Everybody wants select stock. The salesman starts to select roses to fill his orders. By the time one-half of the stock has been selected the balance begins to have the appearance of having been run through a threshing machine. When three-fourths has been selected, what is left looks as though it had been run over by a steam roller. This is not the fault of the commission man. He must wait on his customers when he has them, regardless of everything else, and attend to his stock when he gets a chance to do so, which generally is not until the principal sales are over for the day. Then what is left of the wreck of the day's stock is carefully sorted over. All that are still salable are set aside for a later customer, the poorer quality sold to the street fakirs for very

little more than they would be worth to the grower for mulching. I have estimated that not over 50% of the flowers grown ever reach the customer. Even fair conditions during times of scarcity, such as we have had for the past two months when the retailer has much of his stock sold before he purchases it, not over 60% of what is sent in by the grower ever reaches the customer in good condition, and 25% of this loss is between the time the flowers leave the greenhouses and reach the retailer's counter. Everyone knows that there must be more or less waste in handling flowers. I believe that nearly one-half of this waste could be avoided if the growers would grade their stock before sending it to the commission house, and then all that is necessary is to count out what is sold. The grower would be well paid for his time by the saving in his flowers and the larger returns made for those sold. Every grower should take pride in keeping his stock up to grade, so that purchasers would call for stock with his number, or better still, use your own name instead of the heartless and soulless number. Would Harstring send his flour to a commission house with no other brand than No. 9 flour? or the Mogin creamery send their butter to be sold as No. 15 butter?

Some growers' places are too small to grade their stock, as it would make too many parcels and they would not have enough of any one grade or variety to cut any figure. If that is so, are they not growing too many varieties? Every one whose place is large enough to be made to pay at all, can cut some figure in the market by confining themselves to one or two varieties that can be done best. No one should attempt to grow American Beauty roses unless they have at least 5,000 feet of glass to devote to that rose, because with less than that amount the stock of cut flowers would be so small that they could not be graded, and without being graded they would bring but very little in the Chicago market.

ASHTABULA, O.—Herbert Tong has purchased the M. E. Fassett estate, for a cash consideration of \$4735. Mr. Tong has been head florist at the W. L. Scott private greenhouses in Erie, Pa., for the past fifteen years. He will take possession of his new place at once and the business will be continued without interruption.

*The American Florist*  
Company's



New...  
Directory

Sixth Edition—1898

Of Florist, Seedsmen and Nurserymen to which are added lists of Parks, Park Superintendents and Cemeteries. A complete list of all persons in the above trades in the United States and Canada by towns, also a complete list of the same names alphabetically arranged.

PRICE TWO DOLLARS

AMERICAN FLORIST COMPANY, 324 Dearborn St CHICAGO.

**Musa Ensete.**

The highest aesthetic ecstasy we ever enjoyed was on our introduction to this beautiful plant seated in the parlor of one of the most unique American homes, Mr. Hunnewell's, at Wellesley, twenty-five or more years ago. With me were Mayor Wallack, of Washington, and General Michler, engineer in charge of public buildings and grounds. We were on a trip north in search of rare and beautiful plants to decorate the president's conservatories. A messenger had gone to find the princely owner that we might obtain permission to inspect the rare gems of nature collected there. My enthusiastic anxiety for a closer inspection of the rich mahogany mid-rib, and fine contrasting green of the majestic leaves amused Mr. Hunnewell and my traveling companions very much. It was growing in the cool conservatory adjoining the residence. The scene has left a delicious impression on my mind never to be removed. We were delighted to see, in the catalogue of one of the most reliable seedsmen of this country, that the seeds could be bought for a penny a piece, thus putting it within the reach of the millions, a much to be desired result rarely considered by the average ornamental horticulturist or florist. Its ornamental value may be eclipsed by its usefulness as an esculent, and its name be the "Cabbage banana." We are the fortunate owners of a rare, first edition of James Bruce's travels to discover the source of the Nile in Egypt, Arabia, Abyssinia and Nubia, in five large quarto volumes, published in Edinburgh, 1790. No author was ever more traduced, abused and vilified than Bruce; the Grub street hacks, the penny-a-liners, and even old gruff but honest Sam Johnson took a hand at it, and yet all he wrote, with a few unimportant exceptions, has been verified by subsequent travelers. There are two plates of ensete in volume five, page thirty-five, accurate and interesting. The following extract from the text may lead to the adoption of a new vegetable: "It is said that the Galla, when transplanted into Abyssinia, brought for their particular use the coffee-tree and the ensete, the use of neither of which were before known. However, the general opinion is that both are naturally produced in Abyssinia provided there is heat and moisture. It grows and comes to great perfection at Gondar, but it most abounds in that part of Maitsha and Goutto west of the Nile, where there are large plantations of it, and is there, almost exclusive of anything else, the food of the Galla inhabiting that province; Maitsha is nearly upon a dead level, and the rains have no slope to get off easily, but stagnate and prevent the sowing of grain. Vegetable food would, therefore, be very scarce in Maitsha were it not for this plant.

"As soon as the stalk of the ensete appears perfect and full of leaves the body of the plant turns hard and fibrous and is no longer eatable, before it is the best of all vegetables.

"When you make use of the ensete for eating you cut it immediately above the small detached roots, and perhaps a foot or two higher, as the plant is of age. You strip the green from the upper part till it becomes white; when soft like a turnip well-boiled, if eaten with milk or butter, it is the best of all foods, nourishing and easily digested."

We do not doubt but that this plant will ere long be cultivated for its usefulness as an esculent in the south. In the north its ornamental character needs no boom.

WM. R. SMITH.

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**FROST PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

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**WILL** not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

### MADE IN FOLLOWING GRADES:

No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

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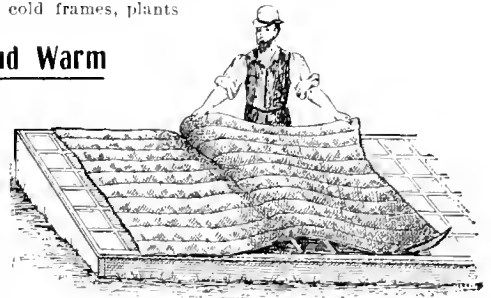
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No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.

Size 40x76 inches, \$1.00 each.  
" 76x76 " \$1.25 to \$1.50 each.

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That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.

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JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

MR. J. HOGG, formerly with Steel Bros. Co., Toronto, is now with S. G. Courteen, Milwaukee.

NETTED GEM MUSK MELON, Refugee beans, Hubbard squash and Evergreen sweet corn are common standard items, but already scarce.

CONTINUED FINE weather the past week has increased mail trade everywhere and receipts compare favorably with those of 1894 and 1895. It is believed that this will result in making the mail trade season a short one.

VISITED CHICAGO: A. L. Rogers, W. H. Grennell.

**Pacific Coast.**

The *Examiner*, San Francisco, says: "A comparison of the rainfall figures in this city shows that the season of 1897-98 up to March 1 has been the driest since 1864. In the latter year the rainfall was 6.21 inches, as against 7.32 inches for this year. In 1851 the rainfall up to March 1 was 3.56 inches. Last year the rainfall in this city up to March 1 amounted to 20.55 inches. Mr. Hammond, of the Weather Bureau, has prepared a comparative statement showing the rainfall in Sacramento during the years that it was unusually dry, so that farmers can draw their own conclusions regarding a dry season for 1898. The rainfall up to date at Sacramento amounts to 8.54 inches. The other dry years up to March were as follows: 1851, 1 inch; 1863, 7.17 inches; 1864, 4.58 inches; 1871, 5.57 inches; 1877, 7.79 inches.

**Catalogues Received.**

The Cottage Gardens, Queens, Long Island, N. Y., plants; Thos. Meehan & Sons, Philadelphia, Pa., trees, shrubs, fruits and plants; James J. H. Gregory & Sons, Marblehead, Mass., seeds; Samuel C. Moon, Morrisville, Pa., trees, shrubs, fruits and plants; F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., trees, shrubs, plants and seeds; C. J. Pennock, Kennett Square, Pa., rooted cuttings; Western Seed & Irrigation Co., Waterloo, Neb., seeds; J. Palmer Gordon, Ashland, Va., plants; James M. Lamb, Fayetteville, N. C., trees, shrubs and plants; I. N. Kramer & Son, Cedar Rapids, Iowa, seeds and plants; Wm. H. Spooner, Jamaica Plain, Mass., plants; Syndicat des Cultivateurs d'Oignons a Fleurs, Ollioules (Var) France, bulbs; Louis Vieweg, Quedlinburg, Germany, seeds and plants.

**Cut Flower Price Lists Received.**

Bassett & Washburn, Chicago; Kennicott Bros. Company, Chicago, W. A. McEadden, Cincinnati, H. L. Snyder, branch Cincinnati, St. Louis Cut Flower Co., St. Louis, Samuel S. Pennock, Philadelphia, Wm. F. Easting, Buffalo, Holton & Hunkel Co., Milwaukee.

**Greenhouse Building.**

New York A. J. Geo. Betts, Twenty third street and Webster avenue, one on servatory.

Holdsburg, Pa. Bender Bros., one forcing house, 25, 100.

Fairfield, Conn. O. G. Jennings, one greenhouse.

Philadelphia, Pa.—Carl Guckert, Ridge avenue, one greenhouse.

Plain City, O.—Cyrus Converse, two greenhouses 16x70.

Marinette, Wis.—Geo. Vatter, State street, five greenhouses.

**Canada Takes Action on Nursery Stock.**

The minister of agriculture introduced in the house of commons a bill to protect Canada from the ravages of the San Jose scale, on Wednesday, March 16. The bill absolutely prohibits the importation of all kinds of nursery stock from countries where the insect prevails, and will apply at once to the United States, Japan and Hawaii. By general consent the bill was put through all its stages at one sitting, and therefore became a law March 17.

HOMER, N. V.—D. C. Coon has bought a half interest in the florist and market gardening business of D. Hobart.

WICKFORD, R. I.—Peter S. Byrnes, of the Homoganset Greenhouses, has been chosen president of the Business Men's Association of Wickford.

CLINTON HEIGHTS, N. Y.—James Brooksbee, for many years a florist here, died on the morning of March 1.

**Seed Stores and Flower Stores**

Can profitably handle our Packages of Plant Food. Attractive, take little shelf room. Valuable booklet free. Good profits.

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7/16 pkts., 48 oz. New Giant Fancy Cosmos, six splendid varieties, separate, 41 oz.; Giant Cosmos, splendid mixed, 65 oz.; Calliopsis "California Sunbeams," 41 oz. Special rates given on Cosmos in quantity; Apple Geranium fresh, 41 per 1000 seeds; New Large Flowering Zonale Geranium, 42.50 oz.; Ipomoea, "Heavenly Blue," 41 oz.; 412 lb., Laurustinus grandiflora, 41 oz.; Zinnias, "New Curled and Crested," 508 oz.; 45 lb.; Nasturtium Good Venture Mixture, 608 lb.; 48 per 15 lbs.; Sanforthin elegans (P. dim) 408 per 100 seeds, 43 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

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**Michigan Nursery Law.**

NATIONAL EXPRESS COMPANY.

ED. AM. FLORIST:—I am in receipt of your favor of the 8th inst. attached to which is a clipping from the AMERICAN FLORIST in reference to the Michigan nursery law.

This matter has been referred to our traffic manager and instructions will be amended at once in accord therewith.

J. A. D. VICKERS, Supt.

ELMWOOD, N. Y.—I. D. Clift and W. W. Norris have formed a partnership to conduct the business of flower growing here. They will soon erect one large greenhouse.

**Jackson & Perkins Co.**

Growers of Choice Specialties for Nurserymen and Florists.....

**NEWARK, NEW YORK.**

**ROSES, NOVELTIES,** Strong, field-grown, dormant plants.....

**THREE NEW RAMBLERS,**  
\$1.75 per 10; \$16.00 per 100.

- Yellow Rambler (Aglai) Companion roses to Crimson Rambler, similar habit of growth and manner of blooming, very vigorous; hardy.
- The only hardy yellow climbing rose.....
- Pink Rambler (Euphrosyne) Clear light red.....
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**Lord Penzance's Hybrid Sweet Briars,**  
\$1.75 per 10; \$15.00 per 100. Extra strong field-grown, dormant plants.

Varieties:

- Amy Robsart—lovely deep rose.
- Anne of Geierstein—dark crimson.
- Brenda—bluish bush or perch.
- Flora Major—pure white, blushed rose.
- Lady Penzance—(b) beautiful, soft tint of copper with a peculiar metallic lustre.
- Lord Penzance—(b) soft shade of fawn or ecru passing to a lovely emerald yellow.
- Meg Merrilees, gorgeous crimson.
- Rose Bradwardine—beautiful clear rose.

**ROSES, COMMON SORTS.**

Strong, field-grown, dormant plants, \$10 per 100. We can still offer, in nice assortment, some extra fine plants at the above price. List of varieties upon application.

Madame Plantier, Russell's Cottage, climbing, crimson; Tenn. Belle, climbing, blush; extra heavy dormant plants, on own roots, two years old, \$5 per 100.

**TREE ROSES.**

5 to 7 ft., extra fine, \$3.50 per 10; \$25 per 100. Crimson, Pink, Rose Red, White, Yellow.

**ORNAMENTAL SHRUBS.** Per 100

- Deutzias assorted 3 to 4 ft. .... \$7.00
- Exochorda grandiflora, tree-shaped 3 to 4 ft. .... 15.00
- Exochorda grandiflora, 2 to 3 ft., fine. .... 10.00
- Fringe, purple, 3 to 4 ft. .... 10.00
- Hydrangea Otaksa, Hydrangea Red Branched, Hydrangea Thos Hogg, strong, field-grown, dormant plants with good crowns. .... 10.00
- Lilacs, new and old varieties, prices and sizes on application.
- Snowball, common, 2 to 3 ft., fine. .... 10.00
- Snowball, Japan, 2 to 3 ft., fine. .... 15.00
- Snowball, Tomentosa (V. Tomentosum) 2 to 3 ft. 15.00
- Spiraeas, as 't'd, very bushy handsome plants. \$6 to 7.00
- Tree Peony, Banksii, 2 yr., strong. .... 30.00
- Xanthoxerax Sorbifolia, a most rare and beautiful shrub. .... 18.00

Complete list of unsold stock including additional Roses and Shrubs, Clematis, Ornamental Trees, Conifers, Small-Fruit Plants and Fruit Trees sent upon application. A postal card will bring it if you mention this paper.

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**Nursery Stock Cheap**

- 10,000 Ampelopsis Veitchii, strong field-grown plants ..... 5c, 6c and 7c.
- 50,000 California Privet, transplanted, extra fine ..... 1c to 5c each.
- 1,000 Shrubs, 10 varieties, for ..... \$40.00.
- Chinese Evergreen Honeysuckle ..... \$30.00 per 1000.

Grasses, \$3.00 to \$6.00 per 100. Hollyhocks and 20 very choice varieties of hardy Phlox cheap. 10,000 Yards of Dwarf Box. Rocky Mountain Cherry, strong, 7c each. Samples sent on receipt of price. Surplus List Free.

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NEW **Lloyd's Favorite** NEW

A new variety that has been recommended very highly. Also Lady Thompson and Tennessee Prof. \$2.00 per 100; \$18.00 per 1000. We have ten more good varieties.

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Wonderful Triumph or Philadelphia. Of a very large size; best quality and hardiest; \$1.00 per doz.; \$7.00 per 100. We have a good stock.

**RUDOLPH BARTH, Florist,**

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Please mention American Florist.

**H. ZYP & Co.,**

UITGEEST,

**BULB GROWERS AND NURSERYMEN**

(Nurseries in Holland and Belgium)

HEREBY give notice to the American Trade that their representative, MR. H. ZYP, will arrive in New York on March 16th per S. S. Teutonic. All mail matter for them may be addressed to him

Care of **KNAUTH, NACHOD & KUHNE,**  
NEW YORK.

**Rhododendrons.**

Not imported and therefore hardy. Hardy Azaleas, Japanese Maples, Magnolias, (living guaranteed)

Rare Evergreens.

other Trees, new Shrubs, Hedge Plants.

**Parsons & Sons Co. LIMITED,**  
FLUSHING, NEW YORK.

**ROSES** OWN ROOTS, DORMANT, FIELD GROWN

No. 1. 2 to 4 feet, cut back to 2 feet.

Yellow Rambler (Aglai), Hybrid Perpetuals, Mosses, Hardy Climbers and Madame Plantier. These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager,**

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**Herbaceous Perennials**

THE MOST COMPLETE STOCK IN AMERICA.

PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

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The Reading Nursery, READING, MASS.

ESTABLISHED 1854.

When writing mention the American Florist.

**HARDY SHRUBS**

Assorted in 25 Varieties.

My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

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**CLEMATIS**

Large flowering varieties Rhododendrons, Ampelopsis, Azalea, B. P. Roses, Tree Roses, etc., etc. Lilies, Tuberoses, Begonias and Gloxinias.....

Branch of The Horticultural Co. **L. C. BOBBINK,**  
Boskoop, Holland. Rutherford, N. J.

Varieties of Begonia Semperflorens

of which "Vernon" is perhaps the best known are gaining new friends every year, and are holding on to the old ones.

EXCELLENT FOR BEDDING

Try CRIMSON GEM, CORAL GEM and DEBBIES of EDINBURG in comparison with Geraniums

SOW NOW

Send one dollar and receive a 1/2 trade packet of each of the above three varieties in return. Cash with order.

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... For the Trade.

NEW CROP

CHOICEST STRAINS

CLOSE PRICES

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1898 SEEDS...

Mammoth Verbena Seeds only \$1.00 per oz. Aster Seeds only 1.00 per oz. Pansy Seeds only 1.00 per oz.

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Aster Seed

Simple celebrated strain of Asters. Finest in the World. Mixed colors, pink, white and lavender. Also a small quantity of pink separate.

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ROEGER'S Prize Pansies; extra fine stock plants from 60-7 frames, in bud and bloom; transplanted in September; plants measure from 2 to 4 inches in diameter; by express \$1.50 per 100 \$12.00 per 1000; medium size plants transplanted in October, 75¢ per 100 \$5.00 per 1000. Cash with order, sample plants 6 cts.

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Pansy Plants.

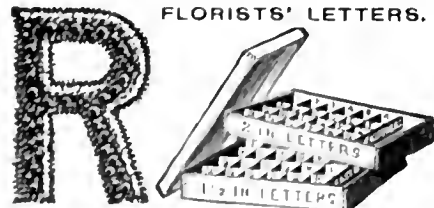
The Jennie strain of Pansies for sale, 50 cents per 100, in bud and bloom; September sown.

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Boston Florist Letter Co.

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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters 1/2 or 2 inch size per 100 \$5.00. Script Letters 14. Enlarge or with each letter or word used by leading florists everywhere and for sale by all who sell florists and supply dealers.

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Being located at the head center of this country for White Pine Lumber we are able to buy our stock right and furnish our customers with goods of the best quality and at prices which will put them at your station lower than the lowest. Our factory is thoroughly equipped and turning out promptly the most uniform, smooth and best painted goods made in this country, put up in neat packages, guaranteed full count and nicely crated.

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The Aull Bros. Paper & Box Co.

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HARDY CUT FERNS

\$1.25 Per Thousand After March 1st.



FANCY

DAGGER

Do not order any ferns unless you are willing to pay this price as my stock is very limited and I have hardly enough now to carry my old stand-by customers to Easter.

L. B. BRAGUE, Hinsdale, Mass.

GALAX LEAVES AND

LEUCOTHE SPRAYS... Green and Bronze. Of all wholesale florists or write the introducer for free samples and information.

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BRILLIANT GREEN AND BRONZE GALAX LEAVES,

For Decorating and all Florists Dealers. CHAS. H. RICKSECKER, Liville, Mitchell Co., N. C.

FIRST-CLASS GOODS and CORRECT PRICES

Illustration of an ornate iron reservoir vase. Text: have forced us to the front and today we are the largest manufacturers of... IRON RESERVOIR VASES and Lawn Seetees In America. A 16-page catalogue for the asking. McDonald Bros. 108-114 Liberty St., COLUMBUS, O.

H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

H. BAYERSDORFER & CO.

60, 62, 64 and 66 N. 4th St., PHILADELPHIA, PA.

John Conley & Son,

Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET,

New York.



**Cincinnati.**

**GOOD TRANSIENT TRADE.—SOCIETY MEETING.—SNAP SHOTS OF THE SHOW.—PERSONAL.**

Business has been keeping up fairly well for the Lenten season; in fact store men report good transient trade, much better than was expected. The weather being warm and pleasant has brought out the shopping public in great numbers.

Roses and carnations find a ready sale while tulips and violets are moving slowly.

Wholesale houses report a good shipping trade.

The regular monthly meeting of the Cincinnati Florists' Society was held March 12 and called to order by President Witterstaetter. The meeting was fairly well attended and the rose and carnation show brought out a goodly number of visitors in the afternoon. There were on exhibition over 100 vases of cut flowers, roses and carnations predominating. Mr. Theo. Bock—his judgeship—was on hand and brought with him Mr. John Boehner of Dayton, Ohio. Mr. Boehner spoke very flatteringly of the Cincinnati monthly show and of the way Mr. Bock hands down decisions. When will Theo. bring his better half around? We are waiting patiently.

Snap shots of the show: A vase of 100 Mrs. Geo. Bradt from Fred. Dorner & Sons Co., was magnificent, and I doubt whether this carnation was ever shown in better shape at any of the previous meetings. A vase of Gold Nugget from the same firm was well done and much admired. Mr. Hill showed Psyche and J. Whitecomb Riley; both made a grand showing. Stollery Bros., of Chicago, sent a vase of their new bread-winner, Argyle; everybody seems to like it. A. Sanderbruch's Sons made the largest display in cut flowers as well as pot plants, and received in turn the largest amount of points. City Greenhouses were second with a creditable display of decorative and blooming plants. Messrs. George & Allen were easily first with roses and bulbous flowers, while Mr. Will Murphy made the best general display of standard carnations. A vase of seedling cannas from Fred Walz were very fine, and his vase of chrysanthemums satisfied all curiosity seekers. Mr. Walz says this 'mum can be had almost any time of the year. Evelina was the grandest white on the exhibition table. A new feature at the last show was the mushroom and cucumber display made by Mr. J. Robertson, gardener to Mr. Schmittlapp.

It was decided to hold the next regular meeting on the third Saturday of April, instead of the second.

Mr. E. G. Hill, of Richmond, Ind., and Mr. J. Boehner, of Dayton, Ohio, were visitors at the show.

Mr. Jac. Wezenburg, of Sassenheim, Holland, carried off several large orders from this city and went to Chicago much encouraged.

H. SCHWARZ.

**PALMS and FERNS**  
 The Largest Stock of PLANTS IN THE WEST  
  
**GEO. Wittbold**  
 1708 N. HALSTED ST.  
**CHICAGO**

# Areca Lutescens

LARGE HEALTHY STOCK

3 Plants, 6-in. Pot, 24 to 32-in. high, very bushy, each	\$1 00
3 " 7-in. " 32 to 36 " " " "	1 50
3 " 8-in. " 36 to 42 " " " "	2 00
3 " 8-in. " 42 to 48 " " " "	2 50
1 " 10-in. " 4 to 5-ft. high, " " "	5 00

ALL MEASUREMENTS FROM TOP OF POT.

**JOSEPH HEAGOCK, WYNCOTE, Phila., Pa.**

...FINE...

## DECORATIVE PLANTS

JOHN H. LEY, Good Hope, D. C.

Solicits early orders for following fine stock:

NEPHROLEPIS, D. Furcans	Each.	Doz.
3 to 4 feet over, full, spliced plants		
50 or more froods (in pads).....	\$2.00	\$18 00
<b>NEPHROLEP S. D. Furcans</b>		
Very large, full of fronds, 3 feet over		
(6-inch pots, fit for 8-inch).....	1.00	9 00
<b>NEPHROLEPIS, Bostoniensis</b>		
Same sizes as above.....	1.00	9.00
Fine for hanging baskets, fronds		
drooping 3 to 4 feet below.....	2 00	18.00
Lomaria Gibba, 4 inch, very strong.....		4.00
Pandanus Ullis, 5-inch, very strong.....		1.00
Nephrolepis Exaltata, 4-in., very strong.....	\$10 per 100	10 00
Ferns from 10 to 12 little plants.....	10 00 per 1000	
100 in 10 sorts mailed as sample for \$1.25.		

ROBERT CRAIG

## Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA, PA.

## SOLANUM WENDLANDI

The most showy semi-temper of recent introduction. Strong 3-inch plants now ready. Also Little Gem Callas, 2 1/2 inches Logan Berries, Strawberry Raspberries, Mayberries. Write for list and prices.

The Conard & Jones Co. WEST GROVE, PA.

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Crowing and Importing of

### ORCHIDS

Our Specialty. Correspondence Solicited.

LAGER & HURRELL, - Summit, N. J.

Mention American Florist.

## SMALL FERNS

IN ANY QUANTITY.

Palms, Pandanus and Araucarias All Sizes.

JOHN SCOTT, Keap Street Greenhouses, BROOKLYN, N. Y.

## Rose Hill Nurseries

LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Araucarias, Pandanus. New wholesale price list will be ready March 20th.

SIEBRECHT & SON, New Rochelle, N. Y.  
 New York Office, 409 Fifth Ave.

## DWARF PAPAYAS

**M**OST magnificent bedding and decorative plant known. Equal to a palm in beauty and manner of growth; grows with the ease of the Ricinus and endures drought with impunity. Plants from 4-in. pots set out June 1st attained a height of 10 feet and though not watered once, remained fresh and vigorous throughout the extreme drought. Also produces a delicious fruit; as easily grown as a tomato. Our plants are propagated from a tree which has produced this winter 192 lbs. of fruit, the largest weighing 12 lbs. Send for half-tone illustration from photo showing bed of these plants. Every florist needs it. Price **\$2.25 per 12** for 3-in. pots, ready May 1st. We are headquarters for tropical plants. Send for list.

Martin Benson,

DONGOLA, - - ILLINOIS.

## LARGE FOLIAGE PLANTS

Areca Lutescens, 8-inch, \$2.00; 9-inch, \$3.00 each. Latania Borbonica, 8-inch, \$2.00; 9-inch, \$3.00; 10-inch, \$4.00, and 12-inch, \$5.00 each. Pandanus Veitchii, 6-inch, \$1.00; 7-inch, \$1.50; 8-inch, \$2.00, and 10-inch, \$4.00 each.

GOOD STOCK.

JOHN WELSH YOUNG, - Germantown, Pa.

## CYCAS

tems, small size, \$12 50 per 100 lbs  
 Stems, larger " 10.00 per 100 lbs.

J. L. SCHILLER, 404 E. 34th St., NEW YORK.

## BEGONIAS

Per 100 Per 1000  
 Single separate colors...\$3.00 \$25.00  
 Double " " " 7.50 65.00

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Sole Agent for LOUIS V. DRIESSCHE, Ghent.

## PALM

Seed. FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA	\$1.00	\$7.50	\$20.00
LATANIA BORBONICA	.50	3.10	7.50
KENTIA BELMORANA	1.00	7.00	20.00
" FORSTERANA	1.00	7.00	20.00
ASPARAGUS PLUMOSUS MANUS	1.50	12.50	35.00
CANARIENSIS	1.50	12.50	35.00
SPRENGERII	1.50	12.50	35.00

J. L. SCHILLER,

404 E. 34th St., NEW YORK CITY.

**Cyripedium Garrett A. Hobart.**  
NEW HYBRID.

Cyripedium Lathamianum x C. insignis Chantini. Foliage deep glossy green, spotted and streaked at the base and partaking much of the character of C. villosum. Scape stout, greenish brown, very hirsute; flower very large, dorsal sepal entirely white save a small yellowish green base, and fifteen well defined lines of large lilac purple spots which spread outward from the base, recurring crescent-like toward the top, having a decidedly pretty effect on the pure white field, which is enhanced by a broad border of snowy white. In

place of the median line which is in Lathamianum, there is here a commingling of large spots and blotches, lateral sepals crystal green tipped with white and very broad, petals yellow, veined with bronze, sparsely spotted at base, very broad, recurring as in C. villosum, lip shining orange bronze with a yellow band round the orifice, staminode yellow with a conspicuous and very rich egg yolk colored base. This is a noble flower in its proportions, and quite fascinating to look upon, the blooms appearing together. Mr. Koebing desires it named as above in compliment to Vice-president Hobart.

HENRY T. CLINKABERRY.

# The New Carnation, Cerise Queen.

READ WHAT THOSE THAT ARE GROWING IT HAVE TO SAY:

MOUNT GREENWOOD, ILL.

MR. FRED BREITMEYER,  
Mt. Clemens, Mich.,

DEAR SIR:—In reply to yours for our experience of Cerise Queen, will say that under our treatment the color, form and substance is all that can be desired; we have also found it a very free and continuous bloomer and have never found a bursted calyx the whole season; it is a little weak in the stem, but we lay that to the poor place in which it is growing, also we think one should be careful and not overfeed it, as it does not need it, but produces a fine flower under ordinary care. Yours truly, C. W. JOHNSON.

H. DALE, Cut Flower Grower,  
BRAMPTON, ONTARIO.

MESSRS. J. BREITMEYER & SONS,  
Mt. Clemens, Mich.,

GENTS:—The plants of Cerise Queen which you sent me last spring for trial have done well; the flower is of very pleasing color, stem medium length, 15 to 18 inches; habit of plant good. I shall plant it again next year. Yours truly, H. DALE.

We predict CERISE QUEEN is the coming Dark Pink Commercial Carnation. Orders booked and filled in rotation. Price, \$2 per doz.; \$10 per 100; \$75 per 1000. **Mayor Plugree**—the best of all yellows. Buy your stock from the Originators. Our stock is in excellent condition; \$5 per 100; \$40 per 1000, R. C.

JOHN BREITMEYER & SONS, Cor. Gratiot and Miami Aves DETROIT, MICH.

## Flora Hill

## CARNATION

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

E. G. HILL & CO., = Richmond, Ind.

# DAYBREAK

\$2.00 per 100; \$15.00 per 1000.

	Per 100	Per 1000
Flora Hill.....	\$ 5.00	\$40
Evelina.....	10.00	
Mrs. Frances Joost.....	10.00	
Empress.....	10.00	
Jubilee.....	3.50	
Painted Lady.....	10.00	
Meteor.....	1.50	
Mangold.....	3.00	
Bridesmaid.....	1.50	
Pingree.....	5.00	
Victor.....	4.00	
Alaska.....	1.50	\$12
Scott.....	1.50	12
Triumph.....	2.50	
Armazindy.....	2.00	

25 at 100 Rates.

## NEW ROSE MRS. ROBT. GARRETT

\$3.50 per doz.; \$25.00 per 100.

SAMPLE OF LETTERS RECEIVED DAILY.

PERTH, ONTARIO, CANADA.  
March 10, '98.

H. F. LITTLEFIELD.

DEAR SIR: The carnation cuttings arrived in first class condition I must say they were fine healthy cuttings. Thanks for attention you paid in packing. Yours truly, THOS. GOUGH.

H. F. LITTLEFIELD,  
WORCESTER, MASS.

## NATHAN SMITH & SON

Wholesale Florists

Specialties. ADRIAN, MICH.

CHRYSANTHEMUMS

CARNATIONS

AND VIOLETS.

... CORRESPONDENCE SOLICITED ...

## Carnations Chrysanthemums

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

Mention the American Florist when writing to advertisers on this page.

# Garnation

PRICE  
\$2.00 per doz.; \$10.00 per 100; \$75.00 per 1000.

Stollery Bros.

ARGYLE PARK, CHICAGO.

# "Argyle"

Order now and get stock which will make GOOD plants by the fall. 91 points at the recent Convention C. S. A.

**Buffalo.**

The Florists' Club held its annual meeting on Thursday evening and elected officers for the coming year. The voting resulted as follows: For president, Wm. Scott; vice-president, Wm. Beuchi; secretary, Wm. Legg; financial secretary, Phillip Scott; treasurer, W. F. Kasting; executive committee, John F. Cowell, D. B. Long, A. H. Wise, W. A. Adams, S. A. Anderson.

It seemed to be the unanimous opinion of the members present that a flower show should be held this fall, and it was so decided. The executive committee will proceed to arrange the preliminaries and report at the next meeting.

After the business meeting adjourned the members of the club and their friends proceeded to the Hotel Ontario, where the annual banquet was served. Of course the decorations were most artistic and the tables were groaning under the weight of the roses sent by Peter Crowe, of Utica. Wm. Scott acted as toastmaster, and his ability in that line is too well known to need any comment here—suffice it to say that he was, on this occasion, at his best. Everybody had something to say, and had no difficulty in saying it and it was really late before "Auld Lang Syne" was sung, and the usual benediction pronounced. Among the visitors present were Mr. Max Beatus, of Cleveland, Mr. Henry Niemeyer, of Erie, and Mr. E. B. Sage, of Redrock, Pa.

Where was George Fancourt?

The weather continues really spring-like, robins, bluebirds, song sparrows, meadow-larks, blackbirds, etc., are with us and crocuses, scillas, erantis, violas, etc., are blooming in the borders, and the white maple, alder and willow are in full blossom.

Callers during the week were, Walter Mott, and D. MacRorie. C.

**THE BEST OF THE NEW  
PINK  
CARNATIONS**

**Mrs. Frances Joost.**

A WINNER EVERYWHERE.

\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000 Cash with order.

**G. BESOLD, Mineola, L. I., N. Y.**

**Experiences  
... WITH ...**

**CARNATIONS**

The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants.

I Guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.

**ALBERT M. HERR,**  
..... LANCASTER, PA.

It will be better for everybody if you mention the American Florist when writing advertisers on this page.

**NEW GARNATION**

**"Mrs. S. A. Northway"**

*A soft shell pink, developing to nearly pure white.*

**OUR MASTERPIECE.**

We shall commence shipping soon.

Orders booked **now** and filled in **rotation** . . . .

PRICE: PER 100, \$10.00. \*  
PER 1000, \$75.00.

**Newer Geraniums.**

Mme. Bruant, Mme. Jaulen, Fleure Poitevine, J. Sallier and J. Ricaud. Fine stock from 2 1/4-inch pots, \$5.00 per 100. ROOTED CUTTINGS, \$3.00 per 100; \$25.00 per 1000. Net cash.

**GENERAL LIST OF GERANIUMS.**

A superb stock in quality and variety of all the finest sorts, from 2 1/4-in. pots, named, \$25 per 1000; unnamed, \$20 per 1000. ROOTED CUTTING, \$12.50 per 1000. Net cash.

**Fuchsias.**

A grand lot of summered-over stock in small pots that will make early blooming plants, \$3 per 100.

SEND FOR IT.

**OUR PRICE LIST now ready, contains prices on many other plants.**

**W. P. SIMMONS & CO., Geneva, Ohio.**

**W. P. SIMMONS & CO.**

Make the following statement to the readers of the American Florist

- As originators and introducers of
- "Silver Spray,"
- "Tidal Wave,"
- "Daybreak,"
- and "Rose Queen,"

each of which has, we believe, proven even better than we claimed for them. We NOW say for 1898 that

**"Mrs. S. A. Northway"**

possesses all the good points that go to make up a first-class and profitable cut flower sort, and that we introduce it with even more confidence than we did the others.

- It is an extra strong grower.
- It is free from rust or disease.
- It is a profuse bloomer.
- It has exceedingly strong stiff stems.
- It is of exquisite form full and double.
- The flower is high built, petals serrated.
- The calyx does not burst.
- It is delightfully fragrant (a quality lacking in many new ones.)

**PRICE LIST of rooted cuttings of New Carnation**

**GENESEE**

NOW READY.

1 dozen or up, prepaid by mail or express.....	\$ 1.35
25 or up (to 100) " " " .....	10.00 per 100
100 " purchaser paying charges.....	8.00 per 100
250 " " " " .....	7.00 per 100
500 " " " " .....	6.75 per 100
1,000 " " " " .....	65.00 per 1000

Descriptive illustrated and priced circular free.

**DAN'L B. LONG, Sales Agent, Buffalo, N. Y.**

**Kathleen Pantlind**

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

**HOPP & LEMKE,**  
Paul P. O., E. GRAND RAPIDS, MICH.

IS a much more substantial flower than Daybreak; color a shade or two darker and entirely rust proof. Can be seen at Vaughan, McKeller & Winter-son's every Wednesday and Saturday.

Beetles.

ED. AM. FLORIST: Enclosed find specimen of an insect that is very troublesome in my greenhouses. It comes out of the ground in the morning and alights on the window sashes where it stays until sundown, when it goes into the ground again. I have tried fumigating with tobacco and nicotine, but it has not proved successful. Please let me know through the columns of your paper what these insects are and how they can be exterminated. E. R. LOWE.

I have your letter of March 8, with accompanying beetles, which one of your subscribers states come out of the ground in the morning and alight on the glass of his greenhouse. The insect which you send is one of the smaller dung beetles of the family Scarabaeidae and known to science as Aphodius granarius. It is an imported insect, having been brought to this country from Europe many years ago, and is, so far as we know, not in any way injurious. There is, it must be admitted, one record of injuries by this species to the seed of grain in the earth, but this is probably an extremely exceptional case. Everything considered, I would advise your correspondent not to worry about the insect, as in time it will probably disappear.

L. O. HOWARD, Entomologist.

20,000 CHRYSANTHEMUMS.

Major Bonnafant, \$2.00 per 100 or \$15.00 per 1000; President Smith, Edin Prase, \$1.50 per 100 or \$12.00 per 1000. Geraniums—the best mixed varieties for bedding. 3 1/2-inch pots, showing buds \$2.50 per 100 or \$18.00 per 1000; 2 1/2-inch pots, \$2.00 per 100 or \$15.00 per 1000. Cash with order or satisfactory reference.

PAXTON GREENHOUSES, C. E. Taube, Prop. Harrisburg, Pa.

New CARNATIONS.

WHITE CLOUD—White. GOLD NUGGET—Yellow. NEW YORK (Ward)—Bright clear pink. MRS. JAMES DEAN (Ward)—Clear silvery pink. JOHN YOUNG (Ward)—White. BON TON (Ward)—Scarlet. Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witteistaeffer), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

MRS. C. H. PEIRCE—Yellow. 3c each, \$3.50 per doz., \$25.00 per 100. SNOW QUEEN—White. 5c each, \$5.00 per doz., \$35.00 per 100. MERRY CHRISTMAS—Late White. 3c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898.

F. DORNER & SONS CO. LAFAYETTE, IND.

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS Ready Feb. 1st and Later

In addition to the above we have Daybreak White, Scott, Portia, MetGowan, Silver Spray, Lindy, Pearl, and others. Write for prices before ordering. We also have a fine lot of carnation cuttings at low prices. Write for prices.

CHAS. CHADWICK,

Lock Box 11. GRAND RAPIDS, MICH.

New CARNATIONS FOR SPRING OF '98 NOW READY.

EVELINA, per 1000. \$80. WHITE CLOUD. GOLD NUGGET. MRS. S. A. NORTHWAY. ARGYLE. BON TON.

Price for strong, well-rooted cuttings, per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.

VARIETIES OF 1897

FLORA HILL..... } Strong, rooted cuttings from flats, per doz., 75c; per 100, \$5; per 1000, \$40..... } JUBILEE..... } MAYOR PINGREE..... } MRS. C. H. DUHME..... } MORELLO..... } VICTOR..... }

STANDARD VARIETIES

ALASKA..... } DAYBREAK..... } LIZZIE MCGOWAN..... } MINNIE COOK..... } WILLIAM SCOTT..... } EMMA WOCHER..... } Transplanted plants from flats, per doz., 30c; per 100, \$2; per 1000, \$15.

CALADIUMS, Fancy Leaved, choice bulbs in named sorts, per doz., 75c; per 100, \$12.00.

VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St.

84-86 Randolph St., CHICAGO.

UP-TO-DATE CARNATIONS!

No one can afford to grow poor varieties, or poor stock of good varieties. We have as fine a stock as can be found of all the Novelties and Standard Sorts and they are **Ready Now**. Do not delay, order now while stock is complete. Catalogue and samples on application.

GEO. MANCOCK & SON. - GRAND HAVEN, MICH

\$100 REWARD

will be paid for any RUST found in our Carnations. All pure and healthy. Throw out that old RUSTY stock, begin anew with clean stock. WE HAVE NICE PLANTS IN 2-INCH POTS.

Meteor..... 100... \$2.00  
Stuart..... 1000... 18.00  
Goldfish.....  
Albertine.....  
Bridesmaid.....  
Uncle John.....  
Storm King.....  
Daybreak.....  
William Scott.....

5-inch Callas..... \$12.00 per 100  
Bridea, Bridesmaid, Perle, Sunset and Niphetos Roses. Send for estimates.

McDONALD & STEELE,

109 So. Washington St.,

CRAWFORDSVILLE, IND.

ORDERS PLEASE

All the leading Carnations Now Ready. Per 100 Geraniums named our selection only, 2 1/2-in..... \$2.00  
Sulphas, Clara Bedman, 2 1/2-in..... 2.00  
Little Gem Feverfew, 2 1/2-in..... 2.00  
Coleus, 20 best bedders, 2 1/2-in..... 1.50  
Lycopodium Denticulatum, 2 1/2-in..... 2.00  
Tradescantia Multicolor, 2 1/2-in..... 2.00  
Alternanthera Aurea Nana and P. Major, 2 1/2-in..... 2.00

THE MORRIS FLORAL CO., Morris, Ill.

ALBA SUPERBA

The Gardenia Carnation.

Plants Now Ready \$10.00 per 100, \$60.00 per 1000

JOHN BURTON,

Chestnut Hill, PHILADELPHIA, PA.

50,000 Flat-Grown CARNATIONS

STRONG STOCK. per 100 per 1000  
Daybreak..... \$2.00 \$15.00  
Scott..... 2.00 15.00  
Rose Queen..... 2.00 15.00  
Portia..... 1.50 12.00  
Rob Roy (new)..... 1.50 12.00  
Jubilee..... 3.00  
Snow Queen..... 10.00  
Silver Spray..... 1.50 12.00  
L. McGowan..... 1.50 12.00  
Eldorado, Meteor..... 2.00  
Flora Hill..... 3.00  
Triumph, Armazindy..... 3.00  
Pinto, new, and Uncle Sam, new, both varieties..... 10.00

Cash with order. HENRY A NIEMEYER, Erie, Pa.

CARNATIONS

STRONG ROOTED CUTTINGS

LIZZIE MCGOWAN..... \$7.50 per 1000  
WILLIAM SCOTT..... 6.50 per 1000

Last chance! Cash with order. This ad will not appear again.

Lake Geneva Floral Co., LAKE GENEVA, WIS.

JUBILEE CARNATIONS, Rooted Cuttings

I have a fine stock of this peerless variety, also most of the leading standard sorts. MARI FOULSE rooted runners at special low rates. Write for prices. Will exchange for fruit trees.

W. W. COLES, - Kokomo, Ind.

Per 100 Daybreak..... \$1.25  
Lizzie McGowan..... .75  
Blizzard..... .75  
Helen Keller..... .75

ROSES 2-in. Pots..... Brides  
\$2.00 per 100..... Bridesmaids  
Perles  
Meteors

Vines Major, 2-in. pots @ \$2.00 per 100.

R. ROY DAVIS, - Morrison, Ill.

NEW CARNATION....

The largest, brightest rich crimson yet introduced... **Empress**

Send for price list of above, New and Standard Sorts....

WM. SWAYNE, Box 226, Kennett Square, Pa.

REDUCED PRICES

— Very Fine Rooted —

Carnation Cuttings

taken from our "Prize" Stock.

MCCOWAN ALASKA ALBERTINI  
HELEN KELLER ARMAZINDY  
DAYBREAK  
\$2.00 per 100; \$15.00 per 1000.

SOUTH PARK FLORAL CO., New Castle, Ind.

ROOTED CUTTINGS

Armazindy..... \$2.50 per 100  
Mrs. Fisher, \$8.00 per 1000..... 1.00 per 100  
Wm. Scott \$10.00 per 1000..... 1.10 per 100  
Sweet Myssum..... 75 per 100

CASH WITH ORDER.

FRANK W. POORE, - Haverhill, Mass.

WEST ISLIP GREENHOUSES.

CARNATIONS. Rooted Cuttings

Scott, Portia, MetGowan, \$1.00 per 100 \$8.00 per 1000.  
Daybreak, \$1.50 per 100 Mixed Geraniums, from flats, strong plants \$15.00 per 1000. Mixed Chrysms, dry roots of the following sorts: Alphonso Bonvier, Miss Crozy, Chas. Henderson, Queen Charlotte, Burbank, John White, etc., \$2.00 per 100. Cash with order.

E. B. SUTTON, Jr., Babylon, L. I.

# 5000 GARDENIA FLORIDA

(CAPE JASMINE.)

3-inch pots, 8 10 inches high, \$8 per 100; \$70 per 1000.  
 25 000 **Cannas**, dormant roots, in 20 best sorts, \$20 per 1000.  
**Lantana Borbonica**, 4-inch pots, 1-2 choice leaves, 12-15 in., \$15 per 100.  
**Lantana Borbonica**, 4-loch pots, 2-3 choice leaves, 15-18 in., \$20 per 100.  
**Phoenix Reclinata**, 4 inch pots, 12-15 in., \$15 per 100.  
**Phoenix Reclinata**, 4-inch pots, 15-18 in., \$25 per 100.  
**Oranges**, heat sorta, grafted, 4-inch pots, 10-12 in., \$20 per 100; 5-loch pots, 18-20 in., \$30 per 100.

P. J. BERCKMANS, Augusta, Ga.

# DOUBLE PETUNIAS

out of 2 1/2-inch Pots; good strain; strong plants ready for cutting, \$2 50 per 100. Cash with order.

ED. QUINN, - Springfield, Mo.

# GERANIUMS

that will please you and prices that will suit you

S. A. Nutt, LaFavorite, Heteranthe, \$2.50 per 100; \$20.00 per 1000; Beaute Polveine, Mary Hill, \$3.00 per 100; Mme. Bruant, Frances Perkins, \$5.00 per 100. 10 varieties Coleus, 4 varieties Carnations, 2 varieties Ageratum. Prices upon application.

H. R. CARLTON, Willoughby, O.

# GERANIUMS.

Extra strong and robust plants in bud, 3 1/2-inch pots. Double Grant, Nutt, and finest varieties to be had, \$3.50 per 100; extras added. Adams and U. S. express. Order early.

JOHN F. RUPP, Shiremanstown, Pa.

# Vinca Variegata...

ROOTED CUTTINGS made last fall, \$1.50 per 100; 3 1/2-inch pots, \$3.50 per 100; or will exchange for some rooted cuttings of Double Petunia, Fuchsias, two year old; La France, Beauties and Mme. Cochet.

GUST. OBERMEYER, Parkersburg, W. Va.

**The Cottage Gardens**  
 QUEENS, L.I.  
 Specialties in CARNATIONS, CHRYSANTHEMUMS, CANNAS, GERANIUMS, DAHLIAS.  
 SEND FOR OUR PRICE LIST

# PANSIES THE JENNINGS STRAIN.

THEY ARE GRAND. Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.

E. B. JENNINGS,

Lock Box 254. SOUTHPORT, CONN.  
Crower of the Finest Pansies.

# MARCH OFFER

Per 100  
 Alternanthera A. Nana, \$1.75; P. Major, \$2.00  
 Begonias, 5 var. and Verbenas, 2.50  
 Coleus and Centaurea Gymnocarpa, 2.00  
 Geraniums, 2 1/2-in. pots, \$2.50; 3-in. pots, 3.75  
 Marguerite (Paris Hais), 4-in. pots, 4.00  
 Pansy plants, 1000, \$9.00, 1.00  
 CASH WITH ORDER.

JOS. H. CUNNINGHAM, - Delaware, Ohio.

Say "saw your ad. in the Florist" when you write advertisers.

# 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbena in the country.

Onr plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

# VERBENAS.

The finest collection in America. 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$20.00. New Yellow Marguerite finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

# Rooted Cuttings VERBENAS CARNATIONS And Other Stock

## DOUBLE HOLLYHOCKS

Fine plants, one-year-old. Pansies, Verbenas, &c. Send for Price List.

S. W. PIKE,

ST. CHARLES, ILL.

# GREEN AS GRASS.

## MAMMOTH VERBENAS

Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6.00. Cash with order.

FRANK S. PAYNE, Barnard Crossing, N. Y.

# AZALEA INDICA

We have an immense stock of all the best varieties; well set with buds; large plants, 12 to 15-inch, \$6.00 per doz.; \$45 per 100.

# PANSIES

We grow over a million from the choicest seed of Bugnot, Cassier, Odier and Trimardeau; transplanted in cold frames; 60c per 100; \$4.00 per 1000.

# HARRISII LILIES

In bud, guaranteed right for Easter; 10c per bud.

# CINERARIAS

In bud and bloom, \$1.00 per doz.

# ROOTED CUTTINGS

100	1000
Mammoth Verbenas.....	\$ .70 \$5.50
Double Petunia.....	1.00
Heliotrope.....	.75
Ageratum.....	.50

Double Golden Dwarf Marguerite, \$1.00 per 100.

# PLANTS 2 1/4-inch.

Double Geraniums.....	\$2.00 per 100
Vinca Variegata.....	2.00 per 100

# WHITTON & SONS,

Wholesale Florists.

City and Green Sts., - UTICA, N. Y.

# FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,

Lock Box 1528, BOSTON, MASS.  
Correspondence solicited.

# SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.  
 CARNATIONS, for fall delivery.  
 CHRYSANTHEMUMS.  
 SMILAX.  
 VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

# CLEMATIS

Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00

H. P. Roses Strong, 2 and 3 years own roots.....\$1.50 \$10.00

RED JACKET GOOSEBERRY, only large native red......75 \$4.00

DOWNING, best for general crop, special prices.

PAEONIES, fine ass't of colors and kinds \$1.25 \$8.00

SMILAX, extra strong plants.....\$2.50

F. A. BALLER, Bloomington, Ill.

# KLONDIKE

Cold Fields at Your Door.

COLEUS—All kinds, all grades and all prices. Vershafield, Grand Queen, 75c per 100; \$6.00 per 1000; 2 1/2-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 50c per 100; \$4.50 per 1000; 2 1/2-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorta, \$12.00 per 1000; \$1.50 per 100. Double Petunias, extra fine strain for flats, \$1.50 per 100; \$12.00 per 1000. Anthemis Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.30 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 5 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2 1/2-inch pot, \$5.00 per 100. Geraniums, standard sorta, our selection \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000. Mountain of Snow, 2 1/2-inch pots, \$2.50 per 100; Mme. Sallerol, for flats, \$1.25 per 100; \$10.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000. The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.

# CARNATIONS AND COLEUS

# ROOTED CUTTINGS

THE 1898 INTRODUCTIONS

THE 1897 INTRODUCTIONS

DAYBREAK of special quality. ROOTED COLEUS in variety. Good stock only. Price list free.

DAN'L B. LONG, Growers' Agent.

BUFFALO.

# 5,000 SMILAX...

From flats, by mail, 50c per 100, \$4.00 per 1000  
 From 2-inch pots, \$2.25 per 100, \$13.00 per 1000  
 Geraniums from 2-inch pots, \$2.25 per 100; \$20.00 per 1000. Cash with the order. Send for samples. Fred Boerner, CAPE MAY CITY, N.J.

# Marie Louise Violet Runners

Good plants, healthy stock, \$5.00 per 1000.

A. WASHBURN & SON

BLOOMINGTON, ILL.

# LETTUCE AND OTHER...

# VEGETABLE PLANTS

LETTUCE—Big Boston, Boston Market, Tenn.; Ball, Grand Rapids and Reichenher's Foreline. 15 cts. per 100; \$1.00 per 1000

TOMATO, CABBAGE and CELERY—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.

CAULIFLOWER, Snowball—35 cts per 100; \$2.50 per 1000; If by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.

Mention American Florist.

Worcester, Mass.

Although Lent has been responsible for some falling off in trade, it was not felt as much as was anticipated. There has been no surplus to speak of; and though business is not brisk florists are doing something most of the time.

Lilies will not be plentiful in this vicinity for Easter, though it has been an exceptionally easy season to get them in on time. The shortage can be laid almost wholly to the lily disease, which has made sad inroads on the stock of some growers. One whom I visited today has thrown out about 800 pots, and there are a good many left that have the same fate in store for them.

It is becoming a difficult matter to hold azaleas for Easter with the thermometer outside registering 65°, and most of the azaleas will be numbered among the "has beens" by the time Easter gets around.

Of other stock there will be a goodly quantity. I should say more perhaps than usual. There is a large crop of roses and carnations in sight; and bulbous stock, like the poor, is always with us.

Hot weather is playing havoc with the violets inside, but some growers are getting good blooms from the frames outdoors.

Fisher & Son have been leased out of their present location, and have secured a commodious store a few doors south of their present location. A. H. L.

Fort Wayne, Ind.

Mr. Vesey's seedling carnation Fort Wayne, which he is likely to put on the market next season, is unquestionably one of the best red ones I have yet seen, both flower and stem being perfect; the average size of the flower, by actual measurement, being three inches in diameter. A houseful of this variety presents a sight well worth seeing. As to Mr. Vesey's general stock, including both his roses and carnations—superb is the word.

At Miss Flick's greenhouses, but a short distance from Vesey's place, the sight was equally attractive. Jubilee, Scott, and Mrs. Geo. Bradt looked fine. Albertini, however, is an especial favorite with Miss Flick. Besides the varieties mentioned and a few other standard sorts, Miss Flick is experimenting upon two seedlings, one white, being a cross between Uncle John and Daybreak, and the other one, a pretty rose pink, is a cross between Uncle John and Bridesmaid.

Mr. Vesey contemplates adding six good sized, well equipped houses to his own plant. "How do you find the greenhouse insurance business?" I ventured to ask.

"Quite encouraging, indeed, and the more so because our plan seems to be gaining more and more favor." Homo.

Special Easter Number

THE Florist of the American APRIL 2  
Will be the annual Easter or Spring Number and will be sent to all the new names distributed for the 1898 Directory.

Peacock's Prize Winning Dahlias

29 First Prizes out of 39 entries in 1896 and 1897  
W. P. PEACOCK, - Atco, N. J.



IMPORTERS  
JAPANESE PLANTS,  
BULBS, ETC.

At lowest prices. Small orders filled from experimental garden Columbia Road, Dorchester, Mass. Wholesale catalogue, 1898 free to the trade.

JAPANESE NURSERY,

Office: 272 Bowdoin St., - BOSTON, MASS.



Large Field-Grown Roots in all the Leading Varieties \$5.00 to \$7.00 per 100.

30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue of novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Dahlia Specialist, Box 382, Denver, Colo.

Chrysanthemums for 1898

Alice F. Carey, Chempwec, Dolores, Minnewaska,  
Miss Gladys Vanderbilt, Robt. G. Carey, Spotswood.

All good commercial varieties at \$3 50 per doz.; \$25.00 per 100. Also all the new varieties of other raisers at advertised prices. And all the best Standard Varieties of former years for all purposes at prices to suit the times.

JOHN N. MAY, Summit, New Jersey.

Two Great Sports

CARNATION

VICTOR

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth. Rooted cuttings now ready. \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

CHRYSANTHEMUM

PENNSYLVANIA

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$35.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

Mention this paper.

"BOSS" Chrysanthemums WM. H. CHADWICK—the grandest white novelty of the season. THE YELLOW FELLOW—Winner of \$100 Stearns bicycle prize. MADELINE PRATT—"As pretty as her picture."

Distributed March 1st by leading firms and the grower..... Grove P. Rawson, Elmira, N. Y.

Jardinieres, Pots AND Pedestals



ADAPTED TO Florists' Use.

Artistic Shapes and Decorations.

Write us for Illustrations and Prices....

BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.

PROVO, UTAH.—The articles of incorporation of the Nebo Nursery Company have been filed for record. The nursery will be located on the land lately brought into cultivation by the construction of the Nebo canal. Forty thousand young trees have been purchased by the company and will be replanted as soon as the weather permits.

TOLEDO, IOWA.—The contract for planting the trees and shrubbery at the Indian school has been let to M. L. Tibbetts, of the Toledo nursery.

## Down to War Prices...

Tuberose Pearl, 4 to 6 inches, per 1000.... \$5.00  
 Spiraea Japonica clumps, per 100..... 3.00  
 Iris Germanica, fine field roots, mixed, per 1000..... 8.00  
 Iris Kämpferi, fine field roots, mixed, per 1000..... 8.00

Send cash with orders.

**HULSEBOSCH BROS.**  
 ENGLEWOOD, N. J.

### Armstrong's Everblooming Tuberose

A NEW departure in Tuberose growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

For Prices and Particulars  
 ...Address...

**LUTHER ARMSTRONG,**  
 3720 Olive St., ST. LOUIS MO.

**BULBS** For FLORISTS..  
 For SEEDSMEN.  
**VAN ZANTEN BROTHERS,**  
 HILLEGOM, HOLLAND.



# Gladiolus Bulbs FOR FLORISTS.

WE HAVE THEM! & WE HAVE THEM!

Columbian Medal. S. A. F. Certificate of Merit. First prizes wherever shown. Cushman's Celebrated Seedlings. A light mixture. No. 1, \$1.25 per 100; \$10.00 per 1000. No. 2, \$1.00 per 100, \$8.00 per 1000. Our No. 2 are fine bulbs, 1 1/2-in. and over.

**CUSHMAN GLADIOLUS CO., - Euclid, O.**

## SPRING BULBS.



**LILIUM AURATUM.** Per 100 Per 1000  
 7-9 inch..... \$3.75 \$35.00  
 9-11 inch..... 5.00 45.00  
**L. RUBRUM (Speciosum)** Per 100 Per 1000  
 7-9 inch..... 4.75 40.00  
 9-11 inch..... 6.75 60.00  
**LILIUM ALBUM (Speciosum)** Per 100 Per 1000  
 7-9 inch..... 6.50 55.00  
 9-11 inch..... 7.50 65.00  
**BEGONIAS TUBEROUS ROOTED...**  
 Single, separate colors..... 3.50 30.00  
 Double, "..... 9.00

## TUBEROSES....

True Excelsior Pearl.  
 "Hallock strain" First size..... 1.00 7.50

**GLOXINIAS** ..... Per doz., 85c; per 100, \$5.00

**CALADIUMS....**  
 Fancy leaved, choice bulbs, per doz., \$1.75; per 100, \$12.00.

**CALADIUM ESCULENTUM**  
 Cured and sound bulbs with live center shoots. Doz. 100  
 5 to 7 inches in circumference. \$ .40 \$2.50  
 7 to 9 " " " .65 4.50  
 9 to 12 " " " 1.00 6.50  
 50c per 100 less on 7-9 inch and 9-12 inch sizes if shipped from New York.

**GLADIOLUS XXX Florists Mixture**  
 Per 100.....\$1.75 Per 1000.....\$15.00

**VAUGHAN'S SEED STORE**  
 NEW YORK CHICAGO  
 14 Barclay St. 84-86 Randolph St.

## CANNAS NEW AMERICAN Finest in the World Our Novelties for 1898

Per 100  
**DUKE OF MARLBORO**, darkest crimson..... \$30.00  
**DUCHESS OF MARLBORO**, only pure pink... 30.00  
**TOPAZ**, only absolutely large pure yellow... 50.00  
**LORRAINE**, pink, edged white, fine..... 30.00  
**MAIDENS BLUSH**, delicate flesh color..... 15.00  
**GOLDEN PEARL**, yellow, nearly double..... 30.00  
**CUBA**, finest and largest gilt edged..... 40.00  
**GLORIOSA**, very dwarf, March delivery..... 12.50  
**PHILADELPHIA**, glowing crimson..... 15.00  
**CHAMPION**, largest, glowing scarlet..... \$5.00 each  
**KLONDIKE**, only large pure orange..... \$2.50  
 Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

**OUR CANNAS IN FRANCE.**  
 To Messrs. A. Blanc & Co.  
 Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Crimson, etc. Signed CH. MOLIN.  
 Lyon, France, Jan. 3, 1898.

**ASPARAGUS SPRENGERI**  
 Fine plants in 6-inch pots, ready for 8-inch, \$5 per 12.

**AMARYLLIS....**  
 Veltch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

**CALLAS**  
 Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each.

**DAHLIAS**  
 11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, GILT EDGE, \$15 per 100. Send for special list.

**A. BLANC & CO., Philadelphia, Pa.**



## Cablegram

...FROM...  
**Yokohama**

"Kaishimeta Teppoyuri."  
 WE received the above Cablegram from our Yokohama house stating that again we control the largest part of Liliun longidorum for next season. Prices will be quoted upon arrival of next Japan mail

**SUZUKI & IIDA,**  
 No. 15 Broadway, No. 3 Nakamura,  
 NEW YORK. YOKOHAMA, JAPAN.

It is good business policy to mention the American Florist when you write to our advertisers.

# 100,000 CANNAS

Strong dormant roots in leading varieties; orders received until April 19th at..... \$3.00 per 100, \$25.00 per 1000  
**TUBEROSES**, Pearl and double Italian..... \$7.50 per 1000  
**RICHARDIA ALBA MACULATA**..... \$3.50 per 100  
**DAHLIAS**, strong whole roots in leading varieties, of Cactus, large flowered and Pompon..... \$6.00 per 100  
**LILIUM AURATUM**, 7 to 9 inches, \$4.00 per 100; 9 to 11 inches..... \$6.00 per 100  
**LILIUM SPECIOSUM RUBRUM**..... \$5.00 per 100  
**LILIUM SPECIOSUM ALBUM**..... \$7.00 per 100  
**PAEONY OFFICINALIS**, best early-flowered red, strong roots..... \$7.50 per 100  
**BEGONIA REX**, in 20 fine varieties..... \$4.00 per 100  
**GERANIUMS**, large stock best bedding varieties..... \$3.00 per 100, \$20.00 per 1000  
 Big stock of pot Roses, Palms and other greenhouse plants  
 Large supply of strong, dormant, nursery-grown Roses, 2-year roots, in H. P., Climbers and Moss. Large-flowered Clematis, Hydrangea Paniculata Grandiflora, etc.  
 If you have wants in Fruit and Ornamental Trees, Shrubs, etc., we have 'em.

**THE STORRS & HARRISON CO., Painesville, Ohio.**

Cleveland.

WARM WEATHER.—SMALL WAR ON PRICES.—NOTES ON EASTER STOCK.—VISITORS.

The long continued and rather unseasonable warm spell that we have been having has begun to affect the supply of stock coming in, although the quality has not at all deteriorated. Lenten dullness, too, contributes its share toward diminishing the demand. About the only striking result so far developed by the situation has been a small war of prices on carnations and tulips between a couple of stores on Erie street. Things got lively enough to reduce prices to 15 cents a dozen for carnations and 25 cents for tulips, rates highly satisfactory to the buyer no doubt, however they may suit others.

Easter stock is beginning to be somewhat discussed, although the length of time still to elapse precludes anything very definite in the way of information, especially in cut flowers. There promises to be the usual supply of everything, with apparently an increase in the stock of azaleas offered. In some cases these are showing a tendency toward undue earliness that threatens to prove disastrous to the owner's chances for holding them until Easter. Aside from azaleas, lilies occupy a prominent place in every florist's calculations for Easter stock. It would seem that, owing to the ravages of disease, there will be less of these in the hands of a good many growers than has been the case for some years previous. Some of the batches on hand look rather late as well as showing considerable disease, nevertheless, the sources of supply being so varied, there may be no shortage to amount to anything. Other stock looks about the same as in other years, even to hydrangeas, which are as usual rather tardy in many cases. Bulb stock of all kinds is still outside, so that it is not easy to tell just what may be offered.

Messrs. Graham and Cushman left Monday afternoon for Washington,

where they attend the Society of American Florists' Executive Committee meeting.

The regular club meeting brought out a good attendance Monday night, but as there was little or no business to transact

the time was put in at ten-pins and cards.

In town lately were Messrs. Joseph Rolker, MacRorie and Van Lienwen, representing respectively A. Rolker & Sons, W. A. Manda and Beerhorst & Van Lienwen. A.

NEW FORCING ROSE MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

H. WEBER & SONS, Oakland, Md.

ROSES...

PERLES.....	} Pots 100	Pots 100	} \$2.50	3	\$3.50
METEORS.....					
BRIDESMAID.....					
BRIDE.....					

Guaranteed first-class. Stock grown in low temperature.

THE E. HIPPARD CO., Youngstown, Ohio.

2-IN. POTS OF ROSES.

Also of Carnations.

Send 50c for samples and prices. Fine Smilax in 2-inch pots. Geraniums in 2 and 3-inch pots.

GEO. A. KUHL, Pekin, Ill.

New American Rose MRS. ROBERT GARRETT

As one of the syndicate holdlog stock to this rose we offer first class plants, from 2 1/2-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

AMERICAN ROSE CO. WASHINGTON, D. C.

300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers.

Send for prices.

The National Plant Company, Dayton, Ohio.

...ROOTED ROSES CUTTINGS

No scrub wood used. All stock thoroughly rooted and carefully packed when sent out. Send for samples...	Per 100	Per 1000	From 2 1/2-inch Pots
			Per 100 Per 1000
AMERICAN BEAUTIES, Rooted Cuttings,	\$2.50	\$22.00	\$4.00 \$25.00
BRIDES.....	1.50	12.50	
BRIDESMAID.....	1.50	12.50	
METEOR.....	1.50	12.50	2.25 20.00
KAISERIN.....	1.50	12.50	2.25 20.00
PERLE.....	1.50	12.50	2.25 20.00

Terms cash with order. Plants from 2 1/2-inch pots ready now.

J. A. BUDLONG, - STATION X. CHICAGO, ILL.

The Easter Number...

OF THE AMERICAN FLORIST ..... ISSUED APRIL 2

Send us a seasonable adv. early and we will give it a Pulling Display.

Will be mailed to all names in the New Directory Florists, Seedsmen, Nurserymen, Parks, Cemeteries.

IT WILL REACH

EVERY ONE OF THEM—OVER 13,000

IN ALL.





Some New American Cannas.

Everybody admires the grand additions to the canna family, by M. Crozy; flowers with large broad petals, full large heads and beautiful colors, but when some of the new American cannas become better known their desirable qualities and new colors will be appreciated. The following are a few striking varieties:

Klondike is a true pure orange with a glisten and sheen that cannot be described or reproduced, very large full heads with many trusses; the petals are two inches wide, rounded at the apex and incurved, foliage large and handsome. It is an early and profuse bloomer, and in the winter the flowers last a long time; one head was in bloom from the middle of December until March 1. While there are a few good orange varieties of foreign origin there is not one that approaches Klondike in size and clearness of color.

Champion is a very fine red. There are scores of red cannas, and many are little different one from another, but this variety has several very decided characteristic features. It is immense in individual flowers, and the spikes are massive, each having four and five trusses; the petals are broad (two and one-fourth inches) and rounding. The ground color is a dazzling crimson-scarlet overlaid with a rich golden lustre, which gives the flower a very brilliant appearance.

Duchess of Marlborough is a pure pink. This is a color that has been sought after by specialists. While we have several varieties of a pink shade there is only one that is the exact shade of pure pink of Mr. Schuyler Mathew's color chart, published by the American Florist Co., and this is Duchess of Marlborough. Mlle. Berat is one of the finest varieties of a pink color, but it is a darker shade than pure pink. The petals of the Duchess are long and gracefully curved, making a very wide flower; each spike produces four to five trusses and each truss enormous quantities of flowers, making a very floriferous variety. The foliage is long and a bright green color. The above varieties grow to a height of four or five feet.

Duke of Marlborough is a dark velvety maroon, shading towards purplish black, the color heightened by the contrast of the bluish, metallic green foliage; compact erect spikes, branching and very floriferous. A bed of the Duke on a bright day looks almost black, the color is so velvety and rich; height three and one-half to four feet.

Cuba is a new variety of the Queen Charlotte type, which bears immense flowers of a deep chrome yellow color with a blotch of deepest vermilion covering more than half the center; obtuse petals, flowers of fine form and good substance; large branching spikes.

Lorraine is a fancy variety with bright pink petals broadly edged with creamy white which changes to white as the flower develops.

Philadelphia is one of the best bedding cannas grown to day, the bright glowing crimson-scarlet flowers are borne on large dense spikes, well above the bright green foliage, the flowers as they fade drop from the spike, leaving the plant clean and fresh. The growth is very even, about three and one-half feet. A large bed of Philadelphia at Mr. Craig's place last summer was an attractive sight.

HAYGOLD OFFICE.

Funeral Flowers.

A body looking man walked into the flower shop of Robert Pullman, 39 Colum

bus avenue, last night, and seizing a pot of daisies, lay down on the floor and began to strew the blossoms over his body. The proprietor ran for a policeman, and the intruder was taken to the station house. He was arraigned in the West Side Police Court this morning on a charge of disorderly conduct and intoxication. The magistrate asked him what was the matter and he said: "I wanted to be buried under the daisies."

"Five dollars for funeral expenses," said Magistrate Olmsted. - N. Y. Com'l Adv

Boilers OF HIGH GRADE. For GREENHOUSES.

See our Catalogue. . . . .

Steam and Hot Water. Giblin & Co., Utica, N. Y.

Say "saw your ad. in the Florist" when you write advertisers.

ESTABLISHED 1859

THOS. W. WEATHERED'S SON,

Horticultural Architect and Builder.

Get my prices on everything needful for erecting or repairing of Greenhouses

Awarded 90 per cent on Greenhouse Construction at last meeting of the New York Florists' Club...

Model of Greenhouse combining many good qualities and the committee consider the same to be worthy of special mention.....

Utility.....	30
Durability.....	20
Simlicity.....	25
Cheapness.....	15
Total.....	90

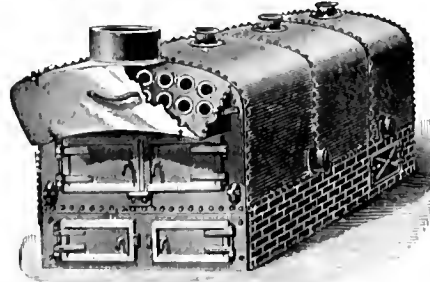
Signed by the following committee:

Handwritten signatures: Alex. S. Burdett, J. M. Ricker, John H. Tracy, J. Naehre

THOS. W. WEATHERED'S SON,

141 Center St., NEW YORK.

KROESCHELL BROS. CO. IMPROVED Greenhouse \* Boiler, 29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

NEW & SECOND-HAND MATERIAL, purchased from Shovel, Receiver, and Auction, sales at less than one-half price. Pipe and Fitting House, Florida Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe, Glass Sash, and thousands of other articles, for sale by CHICAGO HOUSE WRECKING CO. Largest Mail Order Depot for New and Second-Hand Material in the World. W. 35TH & IRON STS., CHICAGO. Write for our free illustrated catalogue



EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS. WRITE FOR ILLUSTRATED CATALOGUE. QUAKER CITY MACHINE WORKS. 444 N. 3RD ST. PHILADELPHIA, PA.

CYPRESS IS MUCH MORE DURABLE THAN PINE. CYPRESS SASH BARS UP TO 32 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL. Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular. THE A. T. STEARNS LUMBER CO., NEPONSETT, BOSTON, MASS.

HOT BED SASH of Red Cedar, Cypress and Pine. A. DIETSCH & CO. Manufacturers of Greenhouse Material. 615-621 SHEFFIELD AVE., CHICAGO, ILL. When writing mention American Florist.

UGLY HOMES Are impossible if you follow the harmonious combinations of colors for house painting, which you can see on the sample cards of LUCAS PAINT. Send for them. They are practical.

Los Angeles, Cal.

Southern California is to-day rejoicing in the finest rain of the year. All vegetation has been suffering for a lack of moisture. Outside the lack of rain, the weather has been all that could be desired, and everything is making rapid growth. Spring flowers are abundant and the florists have orders to use up all stock that comes in. The growers are hunting up their old works on mathematics in an endeavor to hold back such stock as they can not get in for Easter, so it will be in proper condition for the Fiesta.

Mr. Jas. A. Summers, manager of the Central Park Floral Company, recently met with a bicycle accident which at first it was feared would prove fatal. Later reports show Mr. Summers was not quite so badly injured, but he will be confined to his bed for a week or more.

The South California Floral Company are now at home in their new store at the corner of Fourth and Spring streets, and are making a nice show of all seasonable flowers. Morris Golderson, the manager, has fitted the room nicely and is kept busy.

B. F. Collins has just completed one of the finest floral stores in the city at 339 South Spring street. Mr. Collins is well known, and now has an opportunity to display his stock to the best advantage.

E. R. Meserve, 635 Broadway, reports a very good trade in nursery stock. He has recently filled orders for 15,000 orange trees to be sent to Porterville, in the so-called northerneitrus belt.

Advices from Washington, D. C., indicate that the Secretary of Agriculture, Hon. Jas. Wilson, will shortly visit Los Angeles. It is hoped his visit will lead to experiments that will bear practical results in advancing American horticulture.

The reports of the horticultural commissioners of Riverside county show that on an inspection of almost 1000 acres last month the average is but one tree per acre infested with scale or any other parasite.

News from surrounding counties show that extensive plantings of citrus trees are being made at Redlands and North Pomona; but demand for deciduous fruit trees is very much below the average.

On the morning of March 7 John Hannay, a pioneer nurseryman, was found dead in his bed. Death is said to have resulted from paralysis of the heart. D. R. W.

Amount of Radiation.

ED. AM. FLORIST:—Please tell us the number of feet radiation per horse-power boiler, both steam and hot water. S. N. Co.

As a rule it is estimated that one horse-power will take care of one hundred square feet of steam radiation. In the smaller boilers that are not fired regularly fifteen square feet of heating surface and three-fourths of a foot of grate surface are reckoned as equal to a horse-power, but in larger boilers the amount required is considerably less. When using hot water the amount of radiation is about 160 feet for each horse-power, or from 200 to 250 times the grate area. L. R. TAFT.

The Blue Marguerite.

Answering A. A. P., G. C. B. and "Reader"; write to any of the seedsmen advertising in the columns of the AMERICAN FLORIST or to the wholesale plantsmen.

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Kraft's Plant Tonic

For PLANTS, PALMS and FLOWERS

...A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale..

This is one of the greatest preparations for the use of Florists and Plant Growers ever compounded. It gives to the foliage of plants treated the bright, fresh color of healthy, growing vegetation. It destroys all insect life infecting the plant and eradicates scale.

Besides improving the color of the plant, it effects a general betterment of its condition, aiding nature in disseminating and retaining the sap and life of the plant. The Tonic makes the foliage of the plant soft and pliable, and a beautiful bright green.

For sale at

Price per bottle, 25 cents.

84 & 86 RANDOLPH STREET, CHICAGO.

VAUGHAN'S SEED STORE,

14 BARCLAY STREET, NEW YORK.

Jadoo Fibre and Jadoo Liquid

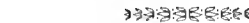
are to-day being sold by the leading SEED HOUSES and are used by prominent GROWERS and FLORISTS.

You Cannot Afford to Grow Plants Without Them

The American Jadoo Co.

815 FAIRMOUNT AVE.

...PHILADELPHIA, PA.



Send for particulars and be convinced

When writing mention American Florist.

Tobacco STEMS DUST EXTRACT

BOTTOM PRICES.

VAUGHAN'S SEED STORE, Chicago. New York.

NATIVE GUANO A COMPLETE AND NATURAL FERTILIZER FOR

Gardeners and Florists. SOLUBLE, QUICK TO ACT, PLEASANT TO HANDLE.

STANDARD FERTILIZER CO., Inc. 1822 Filbert Street, Philadelphia.

Advertisement for NIKOTEEN, featuring a decorative border and text: 'NIKOTEEN IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE. DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABCURA DIP CO. CHICAGO. Kill AND SAVE the BLOOMS Bugs! QUICKLY DOES IT.'

Mention American Florist

ESTABLISHED 1866 EMIL STEFFENS SUCC. TO N. STEFFENS. AND STEFFENS BROS.

Advertisement for FLORISTS WIRE DESIGNS & SUPPLIES, featuring a decorative border and text: 'MANUFACTURER OF FLORISTS WIRE DESIGNS & SUPPLIES 335 EAST 21ST ST. NEW YORK CITY.'

Advertisement for PURE BONE FLOUR and PURE DRIED BLOOD, listing prices and contact information for Geo. S. Bartlett.

Advertisement for Scollay Sprinkler, featuring an illustration of the product and text: 'Scollay Sprinkler... INDISPENSABLE J. A. Scollay, Maker, 74 Myrtle Ave. Brooklyn, N. Y. VAUGHAN'S SEED STORE, Gen'l Western Agents, 84 Randolph St., CHICAGO.'

Special Easter Number

THE issue of the American Florist for APRIL 2 will be the annual Easter or Spring Number, and will be sent to all the new names obtained for the 1898 Directory.

Advertisement for THE BEST FOR ALL Florists' ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE, featuring a circular logo and text: 'FOR SALE BY SEED STORES FOR FREE PAMPHLET WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO LOUISVILLE KY'

Heating Queries.

ED. AM. FLORIST:—There are some questions I would like to ask through your paper in regard to heating a greenhouse 20x75 feet, even span house. How large a boiler will it take, and if a horizontal or an upright would be the best one to maintain a temperature of 65? How many rows of pipe, and how large a pipe, will it take? D. HUGGERT.

If the house is well built and has no glass in the side walls, from four to five square feet of grate surface, and from eighty to one hundred and twenty square feet of heating surface will be necessary to maintain a temperature of 65. If to be heated by steam, as I infer from the question, a six-horse power upright boiler would be desirable. For radiating surface use a 2½-inch main and twelve 1½-inch returns. For a house of this kind, however, I should prefer to use hot water and for a heater would secure some of the cast iron kinds advertised in the AMERICAN FLORIST, that are rated to supply from 500 to 1000 square feet of radiation. Of course steam boilers or box coils may be used, but they will be less durable. The heating pipes for water may be either 1½ or 2-inch, the latter being preferable for the house described; about 1200 linear feet or fifteen runs being required. Some would prefer to use three 2½-inch overhead flows and eleven 2-inch returns.

L. R. TAFT.

LONDON, ONT.—William Gammage, florist, of this city, lectured before the Woodstock Horticultural Society, on Tuesday, March 15.

**WHILLDIN POTTERY COMPANY**  
713-719 WHARTON ST  
PHILADELPHIA PA

**STANDARD POTTS.**

BRANCH WAREHOUSES:  
Kearney and Westside Aves., Jersey City, N. J.  
Jackson Av. & Pearson St., Long Island City, N. Y.

**Standard Pots** Made by **KELLER BROS.**  
Gent. Ex. and L. C. C. For shipping  
2nd Attention for C. C. Orders and Specials Made to Order  
NORRISTOWN, PA.  
Price Lists Furnished on Application.

**STANDARD FLOWER POTTS.**

... FLOWER POTTS.

HILFINGER BROTHERS POTTERY  
FORT EDWARD, N. Y.

SEND FOR FLORISTS PRICE LIST AND CATALOGUE FREE UPON APPLICATION

**Gurney**  
TRADE MARK  
**HOT WATER HEATERS AND STEAM BOILERS**  
THE STANDARD OF EXCELLENCE FOR THEIR RESPECTIVE REQUIREMENTS.  
**GURNEY HEATER MFG. CO.**  
74 FRANKLIN ST. BOSTON, MASS. NEW YORK CITY BRANCH, 48 CENTRE STREET, COR. ARCH.

**SYRACUSE POTTERY CO. Flower Pots,**  
MANUFACTURERS OF  
**Bulb Pans, Hanging Baskets and Saucers**

OUR FLOWER POTTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Polo Pot." They are more Porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

SYRACUSE POTTERY CO. SYRACUSE, N. Y.

**THE BEST STANDARD FLOWER POTTS**

WE make the best flower pot for Florists and general use made in America, as many dealers in Mich., Ill., Wis. and Ind. can testify. We invite a trial order and will be pleased to send price list. Our business demanded a Western Office and we have recently established a Chicago office at 115 Dearborn St., MR. M. E. PARRENTEAU, Agt. Give him a call.

**THE IONIA POTTERY CO., Ionia, Mich.**

**Standard Flower Pots...**

OUR POTTS ARE OF THE BEST QUALITY.  
We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.  
Write us before placing your orders elsewhere.

**CAMBRIDGE TILE MFG. CO., Covington, Ky.**

**STANDARD FLOWER POTTS** FERN PANS and AZALEA POTTS...

OLD RELIABLE MAKE OF Elverson, Sherwood & Barker.  
Write for price list. Address  
**PITTSBURG CLAY MFG. CO., New Brighton, Pa.**

**FLOWER POTTS** ALL KINDS.  
**STANDARD POTTS** A SPECIALTY  
List and SAMPLES FREE.  
**J. G. SWAHN'S SONS, MINNEAPOLIS, MINN.**

**GEO. KELLER & SON,** MANUFACTURERS OF **Flower Pots.**  
Before buying write for prices.  
361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.  
Mention American Florist

**Make Your Own Pots**

The Cow Manure Pot is the best for young plants. For bedding and sending of plants it is absolutely the best thing ever invented. The cow manure forces the plant and makes it healthier. In the clay pots the roots are disturbed in getting them out or sending them but in these pots you do not have to disturb the roots, you squeeze the bottom of the pot and set it in the bed. It never stays the growth of the plant. It holds the moisture better, especially if you have a dry summer. The pots stand perfectly watering in greenhouse and hotbed. Every gardener should have one of these machines for potting. Directions with machine. Sample set pots sent if wanted.

Single Machine 2 Inch Pots \$1.40  
Double 2 and 3 Inch Pots \$2.00

Write HARALD ELTZHOFF, Central Valley, N. Y.

**THOSE RED POTTS**

"STANDARDS"  
FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTTS.  
**DETROIT FLOWER POT M'FY,**  
HARRY BALSLEY, DETROIT, MICH., 490 HOWARD ST.  
Rep.

**Standard FLOWER POTTS.**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.  
**W. H. ERNEST,**  
Station M, N. E. WASHINGTON, D. C.

Northampton, Mass.

Flowers are plentiful and the high prices of a fortnight past are no more. Roses are fine, Maids and Morgans being extra good. Carnations are not quite up to the mark yet, there being a large percentage of split calyxes, probably due to the long spell of dark weather last month. Bulbous stock sells very well and not much goes to waste.

In potted plants azaleas seem to have the lead, with cinerarias a close second; Asparagus Sprengerii also meets with popular favor, and a limited number of Lantana rotundifolia have been much admired.

Indications for Easter point to a good supply and of excellent quality.

April 5 and 6 are the dates for the spring exhibition, and the boys are all nursing some fine pets for that occasion.

A visit to Alex. Park's houses found everything looking well.

G. W. THORNILEY

Hot-Bed

Sash.

Tenons white-lead. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

- 3 ft x 6 ft, 3 rows 10 in. glass.
- 3 ft. 3 in. x 6 ft. 4 " 8 in. "
- 4 ft. x 6 ft., 5 " 8 in. "

Not glazed, 1 1/4 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO.,

Lockland, Ohio.

Cypress Greenhouse Material.

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.

Lockland Lumber Co.

LOCKLAND, OHIO.

H.M. HOOKER COMPANY.  
COR. CLINTON and RANDOLPH STS. CHICAGO.

**GREENHOUSE GLASS**

OUR SPECIALTY.

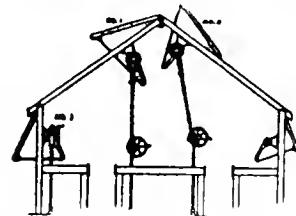
LARGE STOCK PROMPT SHIPMENT.

ALSO MANUFACTURERS OF Pure Linseed Oil Putty, Paints, Brushes Etc.

WRITE FOR LATEST PRICES

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

Send for Catalogue.

E. HIPPARD, YOUNGSTOWN, OHIO.

**CALIFORNIA RED CEDAR**  
NEVER DECAYS.

A. DIETSCH & CO., 619 Sheffield Ave., CHICAGO.

MFR'S OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

YOU CAN SAVE MONEY BY HAVING ME

**BUILD AND HEAT YOUR GREENHOUSES**  
HENRY W. GIBBONS 134-136-138 LIBERTY STREET, NEW YORK.

EXPERT ADVICE AND PLANS FURNISHED.

ESTIMATES FREE.

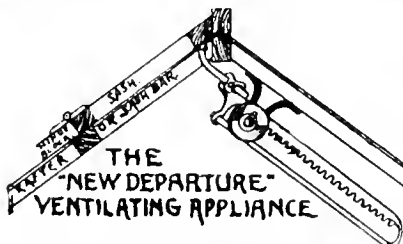
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TO APPEAR IN THE EASTER NUMBER OF THE AMERICAN FLORIST SHOULD BE SENT AT ONCE.

FOR SALE CHEAP. GLASS for Greenhouses, Conservatories, Hot-beds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. THE REED GLASS & PAINT CO., 455 W. Broadway, NEW YORK.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.



You can not get a GOOD THING for nothing. But the price of this apparatus is next to nothing. Send for price and description to

J. D. CARMODY, Evansville, Ind.

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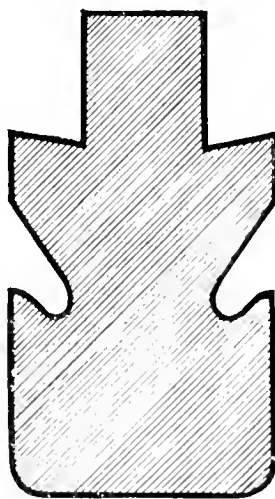
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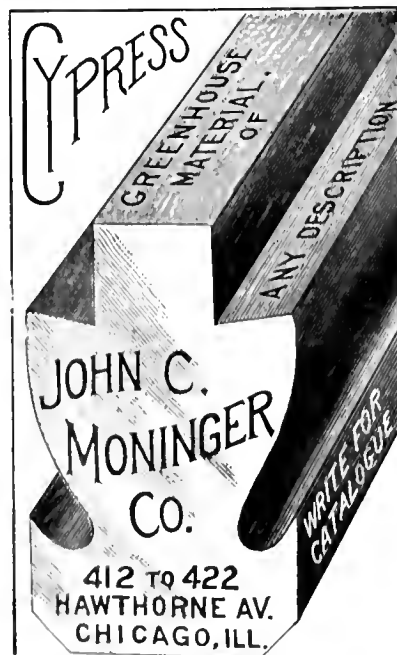
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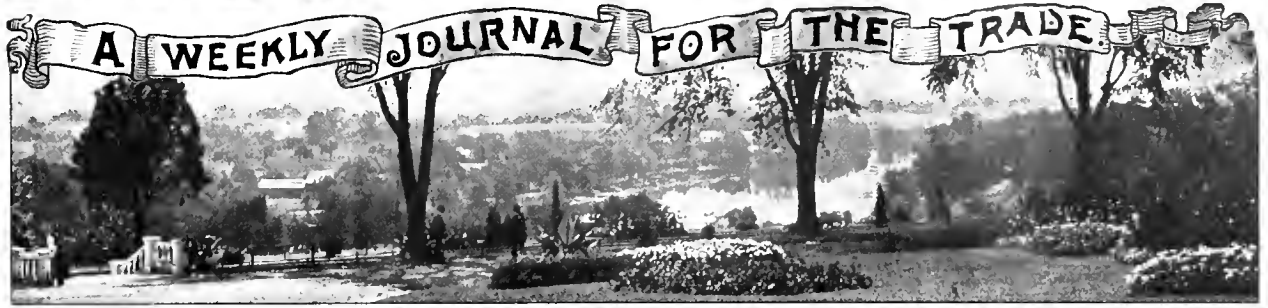
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### SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEVART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August, 1898.

### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

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ISHPEMING, MICH.—The Ishpeming Floral Company have just completed an addition to their greenhouses.

### Washington.

The 1898 meeting of the executive committee of the Society of American Florists and Ornamental Horticulturists is now a pleasant memory. Much was accomplished and the Omaha convention bids fair to be one of the most useful in the history of the society.

The final adjournment of the committee was quickly taken advantage of by prominent local men of the craft to give the visiting members a social season of feasting and sight seeing, and the Messrs. Gude brothers, Mr. Small, Mr. Durfee, Mr. Smith, Mr. Clark and others were untiring in their efforts to make their visit a memorable one.

The banquet at the Ebbitt House was one of the most select and enjoyable it has ever been our lot to attend. Hon. James Wilson, Secretary of Agriculture was one of the honored guests. In speaking of his love for flowers he said he hoped always to be surrounded with them both here below and in that future land, which he knew would be found full of flowers and florists.

The patriotic address of the Rev. Thos. Easton, one of Washington's celebrated divines, was soul stirring and inspiring to a degree, and made all present feel glad that they were American citizens either by birth or adoption. Mr. Edward Hay a prominent member of the bar claimed a sort of second cousin relation to the craft on account of his name. His address in answer to the toast, the ladies, was both flowery and witty and much enjoyed by all present. All the gentlemen present were called on by Mr. Small, the very efficient toastmaster, and with but few exceptions the subject of patriotism was dwelt on to some extent; it seemed to be in the air, and one couldn't stay long in such an atmosphere without feeling proud of his nation and all rose simultaneously and drank to the toast "Our Country," proposed by Mr. Durfee.

The next morning carriages were taken and the party were driven to the establishment of the American Rose Co. of which Mr. Durfee is president. They have an immense range of glass—about 200,000 feet—and all in good working order, in fact there was not an idle house on the place, while those filled with roses and carnations looked particularly fine. In fact but little else is grown except some odds and ends for their retail store. Their roses were looking splendidly, Mme. Chatenay and Golden Gate are the principal varieties grown. Mr. Durfee has great faith in Mme. Chatenay. Some 12,000 plants were forced this season and half as many more will be planted for next year's demands; it is very free and a vigorous,

healthy grower; it resembles La France more than any other rose now generally cultivated, only being somewhat brighter in color, and we should judge much easier for the average florist to grow. Golden Gate is claimed to be the most prolific of all forcing teas, and it certainly seemed to be able to sustain its reputation, being literally covered with buds. In color and shape it resembles Mme. de Watteville, being somewhat lighter than this variety and with much larger flowers and longer stems. Two new roses are being tried, one is Princess Bonnie a red, a shade darker than Wootton, apparently a cross between the latter and Bennett, judging from the foliage, shape of flower and the delightful fragrance, which is much the same as Bennett. Mr. Durfee says they put a few in a box with Meteors to sweeten them. As a commercial rose it is not likely to succeed, being too single. Mrs. Robert Garrett, the other, is a good grower but many of the flowers appear to come deformed, and the outside petals have to be taken off to make the bud presentable.

The carnation appears to be at home here, and all the houses devoted to the divine flower were, if we may say it, in the pink of perfection. The cream of the lot was Victor; it seemed as if the plants would soon exhaust themselves with the load of flowers and buds they were carrying, but we were told that ever since they had commenced to bloom this was their normal condition, and they seemed to be getting stronger if anything. Several houses were devoted to seedlings and all looked fine, a large scarlet was very fine and certainly as good as the best now in the market. A number of others of various colors, apparently quite the equal of standard sorts, were being tried the second year before being named. A large lot of young seedlings, 10,000, all hand fertilized from the best standard varieties are coming on; these are all potted separately, and are to be put on the market soon at \$15 per hundred. The company will offer a premium of \$300 for the best seedling from this lot to be exhibited before the Carnation Society at its meeting in Philadelphia next February, the selection to be made by its judges. It is also required that the winner of the prize must give the company an option to purchase the variety for \$1000 if they so desire. This price may appear high but we question if twice that amount would have purchased the stock of Flora Hill or Victor, and we understand that over \$2000 has been refused for Mr. Fisher's new variety, Mrs. Lawson. A long house of Scotts and the reputed sport Harrison's White, each on a separate table, look well, with the excep-

tion that one table has been furnishing flowers all season while the other is just commencing to bloom.

The large steam boiler which takes 5,500 gallons of water to steam it, is a monster, but is most economical. The heat passes through and about the boiler four times, and all through the winter four tons of coal each twenty-four hours keep up twenty pounds pressure of steam. After a pleasant chat in the office and refreshments, the journey was continued. Mr. Clark's place adjoining was visited. Black Beauty canna, a very dwarf dark leaved kind, was seen; it is said to be a capital bedder.

After a pleasant drive the Gude Brothers' place was reached. Everything was in apple-pie order. A house of Meteors was very fine, and two houses of La France were seen as good as they used to be grown, which is a fact worth recording. A bull-storage warehouse for keeping tulips and other like stock is a feature here; it is partly under ground, and having a double roof the temperature is very even. The tulips are planted in boxes and packed on shelves from the ground to the roof, and brought out to be forced as required.

Again the carriages and the next stop was Mr. Durfee's office in the Malthy building, where a delightful lunch was served and an hour passed in discussing the same and other interesting fixings.

The new Congressional Library was next visited and the beauties of the building almost brought the party to a standstill. Any description of ours would do so little towards giving an idea of its great beauty that we will desist and only say, embrace the first opportunity and spend half a day within its walls. The Senate chamber was next visited and Senators Morrill, of Vermont, Teller, of Colorado, Foraker, of Ohio and Perkins, of California introduced to the visitors. We must not forget a very pleasant visit to the White House conservatories where the party were kindly shown through by Mr. Pfister. It being the time of the President's public reception, the opportunity was embraced and all shook hands with him. K.

Ornamental Bedding.

PART II.

If the bed is not already outlined, put a stout peg where you want the center *a* to be, and lay out the circle with a radius of four feet six inches, making an eye on the twine big enough to slip around easily on the peg, measure the distance on the twine with the tape line, at the desired point wind the twine a couple of times around another peg and with this make the circle, while your helper holds the center peg steady. Then prepare the bed as formerly directed and the work can go on again, draw the circles *b* and *c* with radius four feet two inches and three feet ten inches respectively, mark these circles with sand or whatever you use. After this draw circles *d* and *e* with radii three feet four inches and two feet ten inches, divide the outline (circle *a*) in four equal parts, try with tape line and pegs until you get it right, place a peg in each of these points, *b b* and *b b*, tie a piece of twine from *b* to *b* and a piece from *b b* to *b b* these two pieces of twine should then cross each other at the center, from this *a*, measure to each side one foot six inches and put pegs exactly in the lines, this gives the centers *c*, from these draw circles *f* with seven inches and *g* with one foot one inch radius, from the four points where the twine crosses circle *a*, measure to each side three inches and

where it crosses *e* to each side nine inches and put pegs in these sixteen points, tie twine between the opposite and corresponding points as dotted lines indicate, and draw the parts of these straight lines that are drawn full on the plan. Now mark all the full lines and the bed is ready

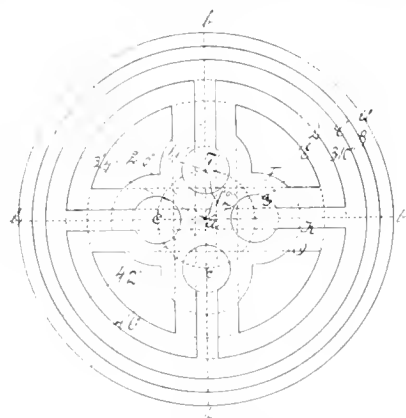


Fig. 1.—A circle, diameter nine feet.

for planting. These directions as well as the following ones will best be understood if you get pegs, twine and tape line and try the construction step by step according to directions on a piece of level ground. With a little practice it is not so difficult. The writer learned by self-study only, having no directions to go by, but having a good knowledge of practical mathematics.

Such a bed as it is usually drawn would look like Fig. 2.

1, *Santolina incana*; 2, *Alternanthera amena spectabilis*; 3, *A. aurea nana*; 4, *A. paronychioides major*; 5, *Santolina incana*.

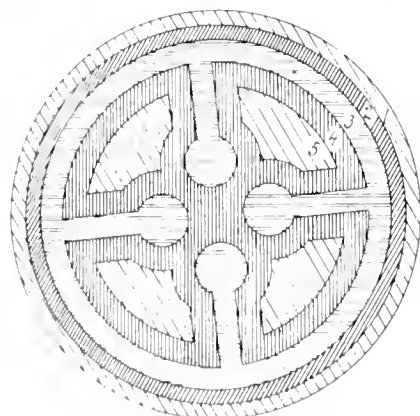


Fig. 2.

A working sketch such as you use for laying out a design would look something like this:



Fig. 3.

While the corresponding design would look like Fig. 4.

1, *Echeveria rosea*; 2, *Alternanthera amena spectabilis*; 3, *A. aurea nana*; 4, *Pilea nana*; 5, *Alternanthera spatulata*.

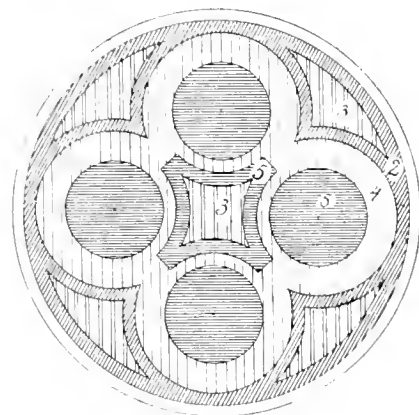


Fig. 4.

Other color combinations than these can of course be used, it depends largely on the stock on hand, and the effect can often be heightened by setting a plant as agave, yucca, *Dracena indivisa* or some ornamental grass in the middle and smaller plants of the same kind or *Echeveria metallica*, etc. In other suitable places, and in many cases the middle of the bed can be raised, sloping evenly to the edge:

1, *Alternanthera paronychioides major*; 2, *Coleus Golden Bedder*; 3, *C. Hero*; 4, *C. Verschaffeltii*.

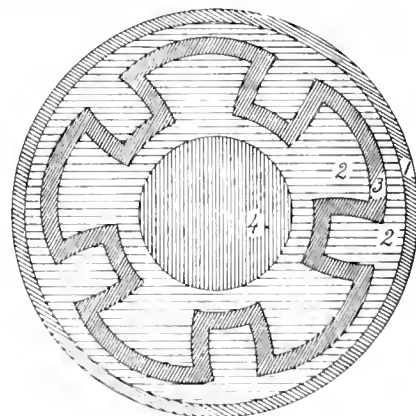


Fig. 5.

This is a bed of strongly contrasting colors for a twelve foot circle; it is easily laid out, the main difference from the former two being that the circle must be divided in five parts to find the centers. Symmetrical designs like these are easily laid out, as the corresponding centers always are equally far from the main center and equally far from each other. In the designs 2, 4 and 5 we have to divide the circles in four and five parts. In Fig. 6 we must divide in ten parts to find the centers, first dividing in five parts and then each of these in two. The radius divides the circle in exactly six parts, take every other point of these and it is divided in three. To divide in eight parts first divide in four and then each of these in two, to divide in nine parts first divide in three and then each of these in three, etc. Fig. 6 will appear in part III.

1, *Alternanthera amena spectabilis*; 2, *A. aurea nana*; 3, *A. paronychioides major*; 4, *Santolina incana*; 5, *Achyranthes Lindeni*.

[TO BE CONTINUED.]

WEST CHESTER, PA.—Josiah Hoopes and Miss Ellie A. Morgan were united in marriage on the morning of March 17. The groom is one of the old established nursery firm known as Hoopes, Bro. & Thomas.



Members of the Executive Committee of the S. A. F. present at the Washington meeting March, 1898.



*E. H. Robinson*     *Frank Leavitt*     *Wm. R. Smith*     *John G. Esler*     *James D. Smart*     *W. H. Miller*  
*Wm. J. Stewart*     *Samuel Wood*     *Adam Graham*     *Ed. Corbett*

### Greenhouse Pests San Jose Scale and Legislation versus Insects.

Read by Prof. Dr. John B. Smith before the New York Florists' Club.

The topics are wide, and either would furnish a text for a sermon if treated at large; but I will content myself with making suggestions rather than exhaustive and exhausting descriptions.

All rational methods for the destruction of insects, indoors or in the fields, must be based upon a knowledge of the character of the insect to be dealt with, of its life history and of the way in which the destructive agent is expected to work.

In the greenhouse where leaves and flowers are the desired products, many methods that are available in the field, become useless. The plants are more delicate, the foliage is more tender and the flowers must be guarded from anything that will tend to discolor or in any way injure their perfection.

We must attempt to arrange our practice so as to destroy the insects without harming our plants, and the selection of a proper agent is sometimes difficult. First, it is important to know how we kill insects. Of course in those cases where the creatures eat the leaf tissue and we use arsenicals, the matter is simple. The poison acts through the stomach exactly as if some higher animal were the victim. But stomach poisons, especially arsenicals, are rarely desirable in a greenhouse, and the insects against which they are necessary are not among those that are most destructive.

Most of the greenhouse pests are suckers and creatures that live on the plant juices and merely puncture the outer tissue to get at the liquid within. Creatures like that cannot be reached by stomach poisons until we learn how to poison the plant circulation itself.

Of course the damage caused is in direct proportion to the number of insects present. A single plant louse, for instance, can do little harm; on a carnation leaf, for example—it makes a puncture or two, exhausts a few cells and dies. The amount of sap taken is insignificant, and not in the least a drawback to the plant. Locally we see a minute yellow spot, and if the leaf be held up toward the light and examined with a glass, a thin spot of exhausted plant cells is seen. With a higher magnification we may see the minute puncture itself. But this is not all, unfortunately. Bacteria and other disease germs are constantly present in the air and on the plant surface; so long as this surface remains unbroken they are harmless, but so minute are they that even the slightest wound gives them entrance and the puncture made by a plant louse is more than sufficient. The exhausted and partly decaying cells injured by the insects form an excellent culture medium for the micro organism and soon the minute spot begins to grow. Then we find a bacteriosis of carnations fully established and now a germ disease instead of an insect must be fought.

I do not mean to assert that all cases of bacteriosis are started in this way, for any skin wound will serve equally well, but it cannot be doubted that in a large percentage of cases the origin of the disease is from an insect puncture. As the insects increase in number, their injury becomes more serious. Yellow spots multiply and the plant begins to feel not only the loss of sap, but the failure of the leaves to exercise their proper function. The disease centers are equally multiplied and the plant becomes physically unfit to perform its usual work of producing perfect flowers in satisfactory quantity.

We get then one very important suggestion here—keep plants as sound as possible and deal with insects at once, when they are few in number, not when they have become so numerous that the plants are practically unable to recover. We must always remember that plants are living beings and responsive to both good and bad treatment. They are as variable in their resisting powers to outside influence as are the members of the animal kingdom, and the one in the best physical health in either case, stands the best chance of altogether avoiding injury.

To understand just how contact poisons work on insects we must consider for an instant the general anatomy, and particularly their mode of breathing. Insects have no closed system of blood circulation such as we find in higher animals. There is only one long tube more or less divided into chambers and this acts as a pump, forcing the blood into the head cavity and from there it makes its way through the body among the muscles and viscera until it finds its way back into the pump.

Neither do insects have lungs and yet they require air to purify the blood, for life is essentially the same in them as in man. Therefore a modification in structure has occurred and the air is carried in flexible tubes to all parts of the body. These tubes go everywhere where the blood goes, and they open along the sides of the body—never on the head. An insect breathes, then, along the entire length of each side and there may be as many as twenty openings, although there are usually less. Ordinarily contact poisons act through these spiracles or breathing pores, though sometimes, on soft-bodied slugs we can use caustics. In the greenhouse, however, these caustics would be almost as dangerous to the plants as to the insects, hence the safer materials which act through the spiracles must be employed.

These may be soaps of various kinds, tobacco decoctions, oils, dry powders or gases, and each of these acts in a different way.

One of the simplest of the remedies usually employed is sulphur, either dry or in the shape of sulphur water. In either case the result is due to the decomposition of the sulphur producing a vapor which is deadly to insect life. Against creatures like the red mite or spider so often found on violets and other plants, dry sulphur spread on the soil and allowed to decompose slowly by the warmth and moisture often acts like a charm. Sulphur, indeed, is almost a specific against mites or similar minute spider-like creatures. The gases given off by its decomposition seem to be deadly to them. To the plants it is harmless unless used in unreasonable quantity. Exactly where the reasonable line ends is a question which the experience of the gardener must ascertain for each line of plants, but ordinarily there is no risk in sowing the sulphur so as to follow the soil very perceptibly.

The sulphur acts only when the insects are in the active stage, and does not injure the eggs, hence infestation may continue for some time after the sulphur is applied, and so long as any unhatched eggs remain.

Against plant-lice sulphur is of little use as compared with tobacco. Tobacco in all forms is a good thing. It is a fertilizer, the nicotine as it is gradually extracted by the moisture of the soil kills almost all insect life contained in it, and when vaporized it is death to plant lice. The mere smell of the tobacco while apparently unpleasant to many insects is not

poisonous to them. But an extract in water so applied that the insects become covered, is rapidly fatal. So tobacco smoke when breathed by insects is fatal to many, while it stupefies a yet greater number. I need not speak on this point to practical florists, all of whom have probably had experience in this direction. A very good way to use tobacco where pipes are sufficiently hot is to smear them with a tobacco extract and moisten from time to time until it has all evaporated. This will penetrate everywhere and will settle on everything in almost invisible globules, killing all the aphides that come under its influence.

This leads naturally to another very important point that must be considered and whose neglect accounts for many failures. Most insects have the bodies either pubescent, very polished, or powdery or somewhat waxy on the surface, so that they shed water quite readily and any application of a coarse spray simply rolls off without effect. So also the spiracles or breathing pores are furnished with protecting screens of hair or bristles which serve to keep out foreign material. A large drop of water or watery decoction has not the least chance of penetrating through this protection and the application is useless as an insecticide. Use the same mixture with an atomizer and the result will be quite different. The minute globules adhere readily to the insect because they are not heavy enough to roll off; they penetrate between the protecting screen or under it, and enter the body with the in-breathing. Therefore when tobacco or any other watery mixture is to be applied it should be put on in as fine a spray as can be secured.

For cleaning house plants of all save scale insects, a tobacco soap-suds put on with an atomizer, is almost perfect. This brings me to soaps as insecticides and they act in a somewhat different way. When put on very strong they are of course very caustic and as dangerous to plants as to insects. Put on at a strength safe to the plants they clog the spiracles and thus choke the insects to death.

Some of you in days gone by may have made soap-bubbles, and if you did not you have probably seen others make them. This is a good example of the tenacity of a soap film, and if such a one forms over the spiracles of an insect the creature simply chokes to death. That explains how soaps act and the one that forms the stickiest film is the best. Tar soaps, or fir-tree oil soaps are particularly good for that reason, and fish oil soaps come next. You can readily test the difference between these and the common hard soap-suds if you make a solution of equal strength. The common soap-suds will feel clean and smooth and crisp to the hand, while the others will feel more or less slimy. These soapy mixtures should also be put on in a fine spray and from what I have said you will realize that thoroughness is essential, for no insect not actually hit by an application will be in the least affected by it. Soap-suds have an advantage over more watery mixtures, because they adhere better. The insect surface that will shed a droplet of water will retain and become covered by one of soap-suds—hence a tobacco soap is better than a tobacco tea, though neither is equal to a tobacco smoke.

There is another point worthy of attention in the greenhouse. If soaps are to be used, those made with potash rather than with soda should be selected.

ash is a plant food and when washed into the soil acts as a fertilizer and is taken up and removed by the vegetable growth. Soda on the contrary in the form used in soaps is actually deleterious to the plants when present in any quantity, and a frequent use of suds made with a soda soap may easily impair the value of the soil for plant growth. In general, hard soaps are soda soaps, while soft soaps are pot-ash soaps.

Dry powders are rarely used in the greenhouse, but whenever they are to be employed the reasons that call for a fine spray, call for the finest possible dust. The finer the dust, the more effective the application. Coarse particles are readily sifted out, but fine fragments penetrate and get into the body cavity where they can produce their characteristic effect.

Of the oils, kerosene only has been used to any extent, and this is a most valuable insecticide where its use is allowable. It is very effective even when greatly diluted, but it must be first emulsified before it can be mixed with water. This emulsion is prepared as follows:

Hard soap shaved fine,	1/2 pound.
Water,	1 gallon.
Kerosene,	2 gallons.

Dissolve the soap in boiling water and pour the kerosene, which should also be slightly warm, into the boiling hot suds—churn rapidly with a force pump for a few minutes, and you will get a beautiful, snow-white butter which will keep in a cool place for weeks, and will dissolve readily in water to any extent.

Thus much for insecticides in general, and now a few words concerning a very few kinds of insects. Of course the same conditions that favor the growth of plants also favor the development of certain kinds of insects, and particularly plant lice or aphides, commonly called "greenfly" or "blackfly" according as they vary in color.

[TO BE CONTINUED.]

#### Antirrhinum Majus.

One of the best things to follow chrysanthemums for the florist who retails his own stock, and who does not require all of his space for bedding plants, is *Antirrhinum majus*. It is easily managed, and not at all fussy, as regards situation or temperature. It is a very useful flower, and helps greatly to relieve the monotony of the general line carried by the florist, who does not have access to the larger trade markets, and is very satisfactory to customers as it will keep nearly two weeks, with ordinary care, and every bud will open in the usual house temperature. The white and yellow varieties have proven to be the most useful, though a light pink variety that we are growing this season seems to sell fairly well. Many beautiful colors can be obtained from seed, but the better way to propagate is by cuttings, which should be inserted by the latter part of March, and if kept well shaded and not allowed to wilt, they will root very quickly.

After becoming established in 2 1/2-inch pots and danger of frost is past, they can be treated in various ways to suit the general requirements. Where the plants are housed early in October, field culture has been very satisfactory with us, being careful to lift with as good balls as possible and keeping them well syringed after planting. A few degrees of frost in the field will not hurt them.

Where it is desired to get a good cut for Christmas we find the best way to grow them is in pots, plunged in some sheltered place outside, and not allowed to get pot



ANTIRRHINUM MAJUS.

bound or to suffer from want of water, and kept well pinched back until the latter part of August. When grown in this way they can be housed early, and will not receive the slightest check when planted in the benches. About 50° temperature at night suits them very well, and at no time should they suffer from want of water; they are great feeders and will appreciate an application of liquid manure once a week after the first of January.

The plants from which the spikes in the illustration were cut were not benched until the last of November and have been blooming steadily since New Year's, and are retailing for \$1 to \$3 per dozen.

A. H. L.

#### Boston.

SPRING EXHIBITION OF MASSACHUSETTS HORTICULTURAL SOCIETY.—IMPROVED CONDITIONS IN CUT FLOWER MARKET.—NOTES AND NEWS.—VISITORS.

The spring exhibition of the Massachusetts Horticultural Society opened on

Tuesday, March 22, with rather unpropitious weather which continued lowering and rainy through Tuesday and Wednesday with a light attendance of visitors but a prospect of better encouragement on the two remaining days. The lower hall was devoted mainly to the cut flower displays, which were not up to expectations in number but were superlative as to quality. Out of \$325 appropriated to roses on the schedule, which was arranged with liberality, less than \$100 was awarded, the only exhibitors being Wm. H. Elliott and Robert McGorum on Brides and Bridesmaids and C. H. Souther (R. Sandiford, gardener) and David Nevins (Alex McKay, gardener) on hybrid roses. All these were very fine.

M. A. Patten, E. A. and W. K. Wood, Wm. Nicholson, F. A. Blake (Bon Ton) and J. Tailby & Son (Wellesley) were the main carnation exhibitors. The sensation in this section was a vase of one hundred blooms of Mrs. Thos. W. Lawson, from Peter Fisher, which received a silver medal and attracted no end of attention from visitors. Patten's vase of

100 assorted carnations was fine. Maud Adams from Frank Niquet was given honorable mention. Alex McKay, as usual, carried off most of the honors on violets, H. S. Rand being second. Pansies from J. S. Fay estate (M. H. Walsh, gardener) and from Robt. Sandiford were up to the standard. Jas. Comley showed a fine promiscuous collection of roses, camellias, etc.

The upper hall, which was devoted to the plant groups appeared somewhat thin as compared with former spring exhibitions. As in the cut flower department many classes were not competed for, such as ericas, orchids, hardy flowering evergreen shrubs, cannas, ranunculuses and novelties in tulips and narcissi. The bulbous classes brought out the fullest competition, tulips being uniformly fine, hyacinths limited in number but good, and narcissi showing a good advance in number of varieties as compared with previous exhibitions. John L. Gardner, Bussey Institution, Dr. C. G. Weld and E. S. Converse were all well represented in the hyacinth classes, the same parties with the addition of W. S. Ewell & Son in tulips, jonquils, narcissuses, etc. J. W. Howard took both Harrisii prizes, and the Bussey Institution both anemone prizes. Dr. Weld's ixiads and tritonias were the best seen here for a long time. Ewell beat the Bussey Institution on general display of spring bulbs with a superb lot.

The finest azalea plant seen here for many years was Edw. Butler's specimen of Carl Enke. Three specimens of *Acacias* *cultriformis*, *Drummondii* and *pubescens* from Dr. Weld were grandly flowered. In Dr. Weld's collection were many handsome stove and greenhouse flowering plants, one of the prettiest, comparatively unknown here, being the little lilac flowered gem, *Exacum affine*.

The Botanic Garden was represented by some interesting things among which were *Dendrobium nobile nobiliss* and *D. Fitchianum*. A plant of *Cattleya Schroederiana* from Bayard Thayer bore twenty-five blooms and was said to be the largest piece of this species in the country. C. H. Souther showed a pretty specimen of *Crimson Rambler* and in J. L. Gardner's group of orchids were some nicely flowered plants of *sophonites*.

The cyclamens were, as heretofore, one of the leading features of the show. The principal contributors were J. S. Bailey (Wm. Donald, gardener), and Mrs. B. P. Cheney (John Barr, gardener). Mr. Donald coming out first on the large plants and Mr. Barr first on those limited to 7 inch pots. On *cinerarias* C. H. Souther, James Garthley, John L. Gardner, C. G. Weld and E. S. Converse competed with results in order as named. John L. Gardner showed a good collection of hardy primulas and polyanthus.

There are evidences of better feeling and improved conditions in the cut flower market. The overstock is not so pronounced and the demand seems better able to take care of the supply. In this statement violets are, however, excepted, an avalanche of them descends on the market every day and a goodly proportion of them are on hand to greet the next day's product. Quality is high on all lines. Roses and carnations have never been better in this market. In the florists' windows, plants such as heretofore have been Easter specialties are a prominent feature. Cyclamens, primulas, azaleas, lilies and quantities of spring flowering bulbs are leaders. *Crimson Rambler* rose is seen occasionally and seems to have taken a place as a perma-

nent attraction in the list of forcing plants for decorative purposes.

On Saturday, March 19, W. W. Lunt exhibited at Horticultural Hall a plant of *Laelia-Cattleya* "Mrs. John D. Long," a hybrid between *Laelia elegans* Warnerii and *Cattleya superba splendens*, and was awarded a silver medal. Edward Butler, who has presided over the greenhouses of Wellesley College, where the young ladies do congregate, for nearly a quarter of a century, exhibited a plant of *Dendrobium nobile* with 1500 blooms, that showed conclusively that "Ted," as his friends call him, had not allowed his horticultural propensities to be interfered with by any extraneous distractions. A vase of *Epicattleya* *Guatemalense* from C. G. Roebeling attracted much attraction.

John Walsh has taken the position of superintendent of the Cut Flower Market, Mr. Kennedy having resigned.

Lawrence Cotter's smile has returned; all on account of a young Miss just added to his family circle.

It is reported in the "down east" papers that large shipments of flowers are arriving from New York on sale. The Boston growers are wondering "where they are at."

The will of the late E. C. R. Walker provides for the bequest of \$20,000 to the Massachusetts Horticultural Society, the income to be used for prizes.

Frank Becker has been dangerously sick with pneumonia.

Visitors. H. A. Siebrecht, New York; Geo. McWilliam, Whitinsville, Mass.; P. J. Donohue, Lenox, Mass.; E. O. Orpet and J. T. Clarke; C. B. Knickman and A. T. Boddington, New York.

### New York.

FLOWERS STILL IN EXCESS OF DEMAND.—LILIES MAY BE SCARCE FOR EASTER.—VIOLET PLANTS ARE GOOD.—THE TRIP TO OMAHA.—FINE ORCHIDS.—MR. LODER'S NEW OFFICES.—MR. O'MARA TO SAIL ON JULY 2.

The receipts of flowers continue heavy but not quite so unwieldy as at this time last week, owing to darker and colder weather. As to the Easter prospects all are still in the dark. It is generally accepted, however, that lilies will be scarce as compared with former years, and that for good material in this line better prices will be realized than for a number of years. Louis Schmutz who has always on tap a vast amount of logic of his own peculiar brand says that if we have war with Spain we can make sauerkraut of our flowers.

Plants are of fine quality, as seen in the shop windows. Azaleas are well flowered, lilies short and stocky, ericas well feathered and violets never looked better. The Campbell, not equal to the Marie Louise as a cut flower, makes a much prettier pot plant. The flowers are larger at this season of the year and the color shows up more effectively.

The Market Florists' Association met March 22, and adjusted matters with the city authorities, and Clinton Market will be open for the plant business at 1 a. m. March 28. Forty-two stands are already taken and the enterprise starts off with brilliant prospects. An executive committee has been elected, with John Birnie as chairman, and the next meeting will be held April 12. The rent of stands is \$1 to \$1.25 per week in advance.

The florists' favorite Fall River Line is now fully settled in its magnificent new pier at the foot of Warren street. It is much to be regretted that these boats on which the boys have enjoyed themselves

so much on past occasions, cannot run direct to Omaha. If that were possible, a full delegation would be assured. Efforts are being made, however, to plan some way whereby as many as possible may be able to travel together and thus make the long ride pleasanter.

MacDonald & McManus are receiving quantities of *Cattleya* *Trianae* daily and expect to have them until after Easter. They filled one order for 600 blooms one day last week.

The National Florists' Board of Trade has secured larger offices on a lower floor in the building they have been occupying heretofore at 271 Broadway, and Mr. Loder has arranged for many improvements in his facilities for prompt work in the special line in which they are employed.

Patrick O'Mara is booked to sail for Europe on July 2. We shall miss him greatly at the convention.

### Chicago.

TRADE QUIET.—STOCK ACCUMULATING.—PRICES DEMORALIZED.—MEETING OF THE FLORIST CLUB.—DEATHS.—PERSONAL.

Business during the past week has been quiet. Sales have not been as large as they were the previous week, while the cut of flowers has been larger. Stock has accumulated in the wholesale stores, and as a result prices have been somewhat demoralized, buyers being able to dictate prices in most cases, especially on large lots. The very bright warm weather we have experienced for the past five or six weeks is having a very beneficial effect upon the crop of Easter lilies; many growers that were doubtful about getting their crop of flowers open for Easter five or six weeks ago now have their plants so far forward as to feel safe in taking orders for them.

W. W. Barnard & Co. have leased the new six-story building, Nos. 161 and 163 East Kinzie street, and will move their office into the new location May 1. W. W. Barnard & Co. are successors to Hiram Sibley, who started a seed business in Chicago in 1878 and sold out to W. W. Barnard & Co. in 1888. Mr. W. W. Barnard, the proprietor, was formerly connected with the old Sibley business. He was born in Chicago in 1856.

The Florist Club met Thursday evening. Edgar Sanders reported for the trustees that they had secured an option on a hall in the Lemoyne building at about one-half the rental the club is now paying. The trustees were instructed to go ahead and make the lease. The special order of the evening was the Harrisii lily disease. Mr. Buettner led in an informal discussion of the lily disease and diseased bulbs generally. Mr. Buettner claims that the same mite that causes the disease may be found on nearly all flowering bulbs, including all varieties of lilies, hyacinths, tulips, narcissus, iris and tuberose. The consensus of opinion among those present was that until sounder bulbs could be procured it would not pay the average grower to force Harrisii. H. Van Teylingen, representing Van Zandt & Co., of Holland, was present at the meeting.

Mrs. Fre, wife of John C. Fre, died at Chicago on Saturday, March 19. Mr. Fre in this bereavement will have the sympathy of his many friends and acquaintances throughout the northwest. Mrs. Fre was the mother of Mrs. James Hartshorne.

Carl A. Lundstrom, of School street, died on Saturday, March 19, aged 65 years; there was a largely-attended

funeral, the interment being at Grace-land cemetery. He had been in the florist business at the above address for the past fourteen years, and was well known and respected by many people both in and out of the trade. His wife and four sons survive him. Robert Lundstrom, a son, is connected with the Lincoln Park conservatories.

Arnold Ringier is a firm believer in Bradstreet's and Dun's commercial reports. Burglars entered the flat building where he resides and robbed the flat above and next to his of jewelry and silverware to the amount of \$600 or \$700, but never took the trouble to open the door leading to his apartments. The police claim it to be the work of experts.

Frank T. Emerson, of Omaha, Neb., stopped in Chicago last Saturday. He is on his way east.

A. L. Vaughan started west on a business trip Tuesday.

L. G. Grensenz, salesman for Bassett & Washburn, was married on Wednesday evening to Julia Keig.

Visitors: Jac. Wezelenburg, Sassenhiem, Holland; N. Dames, representing Van der Horst & Dames, Holland; Robert Craig and John Burton, Philadelphia.

#### Rose Leaf Blight.

There is a leaf trouble of the rose that is becoming quite common in parts of the country. It was about five years ago that the writer first met with this fungus. This was in a large house of various sorts of roses some of which, worse than others, were looking badly from the disease. The effect of this fungus, *Sphaerella rosi-gena* E. & E., is that of irregular spots of a gray color and often surrounded by a purple or red border.

Figure 1 shows three rose leaves with some of the leaflets already fallen, and the remaining ones are more or less blighted. The largest leaflet, the terminal one upon



FIG. 1. THE ROSE LEAF BLIGHT.

the left hand, has the blight in its center. Figure 2 shows this same leaflet as seen under a magnifying lens and the blighted part is fully three times the natural size. With this enlargement the fruiting of the fungus is shown as minute dark pimples. This is not the place to discuss the method of spore formation, but it goes without lengthy statement that when this blight gets so firmly seated in the leaf as shown in figure 2 there is not much more hope

of usefulness for that leaf. In fact instead of being an organ for the making of substance for the growth of the plant it has degenerated into a propagating place for the fungus that has brought its ruin. And this leads naturally to a considera-

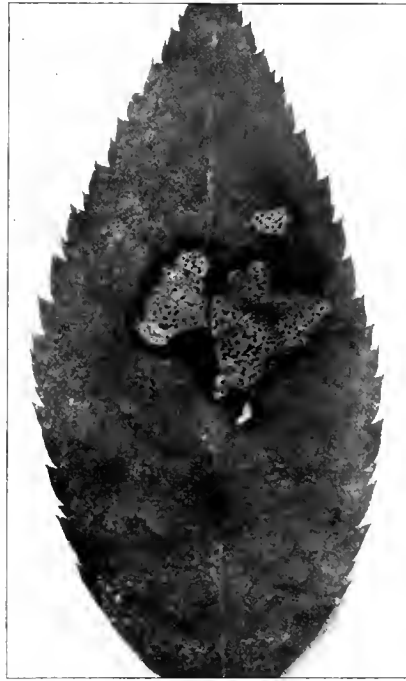


FIG. 2. THE ROSE LEAF BLIGHT

tion of the importance of removing all such leaves and burning them, or better still of treating the foliage so that such blotches do not get started in the rose foliage. Such troubles cannot be cured, but it does not follow that they need to be suffered.

It is as essential for the marketing of the blooms as for their production that the foliage be kept in a healthy condition. This means healthy stock to start with, the best of soil with fertilizer in right amount and judicious watering and ventilation. Probably the best spray for fungous diseases is the cupram, as it has no lime, and therefore gives no objectionable coating to the foliage. Flowers of sulphur will do some good, and has the great point in its favor of doing no injury to the rose plants.

BYRON D. HALSTED.

#### St. Louis.

BAD WEATHER MAKES BUSINESS QUIET.—SOME GROWERS VISITED.—J. J. BENEKE CHANGES QUARTERS.—PERSONAL.

The past week has been one of the worst on record so far as the weather goes.

Business the past week has been quiet, painfully so for those depending upon transient trade, owing to the wet weather. Those doing a custom trade, however, report better business, principally lunches and funeral work, but not nearly enough demand to move stock. The wholesalers have quantities of stock on hand in all varieties which they can't dispose of; the glut is caused not by heavy receipts, but by the absolute lack of demand for stock; the only thing selling are the selected grades of roses and some fancy carnations.

Owing to the peculiar state of trade,

the wholesalers have seen no benefit to come from a lowering of prices, and consequently they have held them up to last week's figures. Carnations running 1 to 3 cents; roses, 1 to 6 cents; Beauties, 2 to 35 cents; violets, 10 to 30 cents, smilax has been cleaned up better than anything coming into the market, selling from 10 to 15 cents. Fancy ferns have been very scarce, some wholesalers reporting them to be over for the season.

Several bright days following the present cool spell will put the market in good shape to last until after Easter.

A visit was paid to several of our St. Louis county growers last Sunday by your correspondent. Mr. J. W. Dunford's place at Lockland was first visited; the carnations were in good shape, especially Scott and Daybreak; we found here another system of staking carnations or rather supporting them and like most all the systems written of, considered the best by its inventor. The support used is 12-inch chicken netting; it is run across the bench and back between each row of carnations on its edge; it is not cut but is continuous and passes around the front plant of a row, and starts down the other side; it is spaced and held in shape by short cross wires that are clamped to its edges, three cross wires being put on the upper edge and two on the lower edge in each row. It is the intention of Mr. Dunford to lift and hang the whole thing to the roof when removing the plants and drop it in place again as soon as the plants are in the benches for the following season. Although successful in growing roses Mr. Dunford expects to put his three large houses entirely in carnations next season; his violet house will contain as it did this season small single violets; when asked about California for single, he said the returns from the smaller violet were enough to satisfy him. After trying Farquhar and Marie Louise side by side, the results are against the older variety and it will be discarded in favor of its newer competitor.

Our next stop was at John Steidle's place; his carnation house was worth a long trip to see; if any of our growers want to see or find out anything about red carnations, they would be wise to examine his bench of Jubilee; they were simply magnificent, without doubt the best of that variety the writer has ever seen. Daybreaks also were fit companions for Jubilee, being in just as good shape, they, however, being more universally grown do not make the impression that well-grown Jubilee do. In white, Alaska is grown principally; several panels of Flora Hill have been tried this season but will be discarded and Alaska held to for the main white; Evelina will be tried the coming season just as Flora Hill was the present. Mr. Steidle believes in holding fast to tried varieties, and make the newer ones prove their superiority before giving them any amount of bench room. Scott has proven unsatisfactory this year, fully 50% of the flowers having split their calyx, he will grow in its place a deep colored sport from Daybreak, which he has succeeded in fixing, and of which there is quite a stock. Violets are also quite extensively grown by Mr. Steidle, small single, California and Farquhar. Here, as at Mr. Dunford's, Farquhar is most highly spoken of; it appears to be the coming double variety for profit. I am afraid to state Mr. Steidle's estimate of flowers cut to a plant for fear that there would be nothing grown next season but Farquhar. The place all through was in excellent shape and is a credit to Mr. Steidle's ability as a grower.

J. J. Beneke has moved his store one door west from his former location at 1220 Olive street. The store vacated was about the fifth flower store opened in St. Louis, and has been used continually as a flower store for more than twenty-five years. The new store is much larger and better adapted for the needs of the business, besides containing two fine show windows.

Mr. Kellogg, of Pleasant Hill, Mo., passed through town last week on his return from the meeting of the executive committee of the S. A. F. in Washington. He reports stock looking well around Washington; he was also impressed with the appearance of Mrs. Robt. Garrett and reports growers as being of the opinion that it will prove a good winter flowerer. The report he brought back of the entertainment by the Washingtonians need not be mentioned as all can imagine it who know what wholesouled fellows the Washington brethren are.

Visitors: Harry C. Sim, representing Henry A. Dreer, of Philadelphia.

R. F. T.

#### No Politics in the Paterson, N. J., Park Management.

ED. AM. FLORIST:—In a recent issue of your excellent journal, in an article referring to change of park superintendent in this city, you make certain derogatory strictures on the park commissioners, attributing the resignation of Otto Buseck, our former superintendent, to a political deal, and alleging that a change was made for the purpose of making room for a man with a political "pull."

As there are always two sides to a story we trust that you will give the same prominence to a contradiction of the allegations alluded to. We emphatically deny that Mr. Buseck's resignation was enforced through any political influence governing the action of the park commissioners of this city. Politics have never at any time entered into the business or deliberations of this body since its organization in 1889. The commissioners to a man have jealously sought to keep out everything bordering on politics, and in this the citizens of Paterson have had a source of much pride. No man applying for a position as superintendent has ever been asked his politics. Mr. Buseck was not. He was not a citizen of the United States when he was engaged, and it is doubtful if he is at the present time. Our late lamented superintendent, Henry McCrowe, who died in the service of the commission after serving three years, was not a citizen at the time he was engaged, but became one later. These instances are cited to show how little attention is given to politics. The engaging of the workmen for the parks is entirely in the charge of the superintendent, who discharges and hires as he sees fit those men that he requires for the work, and he has instructions not to keep any man in the employ of the department that is not able to do a fair day's work. So much for politics.

When the commission engaged Mr. Buseck, after the death of Mr. McCrowe, he was engaged on the strength of his recommendations and his own claims as to his fitness for filling the position. It was made manifest very shortly after his engagement that he lacked executive and professional ability to fit him for the position, but rather than dismiss him the commission decided to allow him to remain in the employ of the commission until this spring. Mr. Buseck was informed that a change was to be made so as to allow him to retire from the com-



NEW CHRYSANTHEMUM MRS. A. F. WIENOLD.

mission with the prestige of having resigned. This is all there was to his enforced resignation. Six out of seven commissioners favored a change, deeming it for the best interests of the parks of this city. If there were "politics" in the commission Mr. Buseck ought certainly to have had more than one friend in the commission. So much for the change.

Mr. John M. Hunter, who was unknown to the commission one week previous to his engagement, applied for the position and has been appointed Mr. Buseck's successor. Mr. Hunter comes to Paterson from Hempstead, Long Island, and is an entire stranger in Paterson. He came highly recommended and was engaged. He certainly had no "political pull" to get the position. The park commissioners of Paterson are all influential and representative business men working for the best interests of the parks. They serve without remuneration and are not dependent upon their appointment in any way to politics. When Mr. Buseck makes the statement, or any one else, that his removal was due to politics he charges what he knows to be not so.

Very respectfully yours,

THE PARK COMMISSIONERS.

We publish the above abstract of a letter received from the park commissioners at Paterson, N. J., with pleasure. The AMERICAN FLORIST is always desirous of publishing facts, and it would appear from the foregoing very clear and definite statement that a serious injustice had

been done the estimable gentlemen who have charge of the Paterson parks.—ED.]

#### Early White Chrysanthemum.

MRS. A. F. WIENOLD.

The blooms in the illustration were all cut from one plant on October 7 last, the photo being taken after they had been kept two weeks. The color is a creamy white, the form of the flower being very similar to Golden Wedding. It is a strong, rather tall grower and said to be very easy to do.

It is being introduced by McDonald & Steele, Crawfordsville, Ind.

#### Philadelphia Notes.

The Spring exhibition of the Pennsylvania Horticultural Society will be held next week commencing Tuesday, March 29, and continue until April 1. It is the first spring show held for several years and it is to be hoped that the trade generally will give it all the support they can by exhibiting and competing for the generous premiums offered. A spring show properly conducted should be almost if not quite as great an attraction as the chrysanthemum exhibition in the fall. Let everybody put their shoulder to the wheel and push all together.

The number of G. C. Watson's phone is 5085 D. He has been a trifle slow, or perhaps we had better say conservative, with this convenience, but now one can have his cut at a moment's notice.

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insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

**B. P. Critchell's Sons.**

The above firm call our attention to an error in their advertisement in our issue of March 12. The advertisement is worded "Six *Areca lutescens* 5-inch pots, five in a pot." It should have been "three in a pot."

**"Experience with Carnations."**

The latest edition of Mr. Albert M. Herr's pamphlet on carnations has just been issued. It gives further information about varieties mentioned in former editions with additional cultural notes. Everyone interested in carnations should send for a copy.

**Greenhouse Building.**

East Weymouth, Mass.—Daniel Lincoln, one greenhouse, 150 feet long.

Westerly, R. I.—H. G. York, one commercial house, 23x70 feet.

**E. G. Hill's Experience with Jadoo.**

In answer to your questions regarding Jadoo would say: First, it is useful in a limited way for germinating certain seeds, chrysanthemums, begonias, and other seeds of a like nature, for the reason that it seems free from substances which go to decomposing soon, thereby rendering less trouble from fungus growths. There are other substances equally as good, viz., cocoa fibre and some kinds of peat.

We have found it good for fancy caladiums, especially for starting the bulbs in for early growth; but it does not maintain growth without the application of liquid or other feed—for that matter neither will soil, where extra good plant development is desired. We have used about two tons of it and shall continue to experiment with it, believing it has certain qualities for a few kinds of plants which warrant its use.

We think its cost out of all proportion to its value and doubt if it will become very generally used on that account.

If it will do one-half what is claimed for it, it should become a very valuable adjunct to the florist in the production and development of high class flowers and extra fine plants.

In the stirring competition now prevalent in the florist trade it would require that Jadoo at \$27.50 a ton should possess extraordinary powers over ordinary compost in order to warrant its being used to any great extent by plantsmen. This quality we fail to find in its use over soils for general culture. Our experience is that it does not work well to mix with the soil of eastern Indiana, and fail to find any special benefit whatever from its incorporation with our general compost as used by us.

As noted above we intend to give further trial and experiment, desiring it shall obtain an honest start with us in competition with other soils.

In connection with the subject matter

it may be stated that there are deposits of vegetable fibre in eastern Indiana not unlike Jadoo in fibre and texture, and which, when sweetened by exposure to air and frost, acts as a stimulant to quick root production. This particular fiber is found where the beavers in years gone by built their dams across rivers and streams. We have no doubt but that this fiber if gotten out and sweetened would be useful in a limited way, equally so with Jadoo.

E. G. HILL.

**Society of American Florists.**

The Executive Committee of the Society of American Florists and Ornamental Horticulturists held its session in Washington, D. C., on March 15 and 16. Many matters of importance concerning the future policy of the society and the management of its various departments were taken up and carefully discussed.

It is not the purpose of this communication to give in detail all the matters which occupied the committee's time, but merely to give briefly the conclusions arrived at in some of the matters of special interest to the society members and the trade in general. The most radical departure from the past policy of the society was the adoption of resolutions establishing a number of departments under the society's management, calculated to secure to members of the society direct benefits which are likely to make membership in the organization desirable and necessary to everyone identified with the florist trade. These departments are to be established under the following titles: Department of Credit Information, Purchasing Department, Legislative Department, Arbitration Department and Claims Department. Each of these departments is to be under a committee appointed by the president, with the approval of the society, and the title, in each case, indicates its work.

The duty of the committee on credits will be to furnish information concerning the business standing of persons in the trade; said information to be supplied to members of the society at \$1 per annum and to all other applicants at \$5 per annum. This committee was constituted to consist of the secretary with Messrs. H. B. Beatty and Adam Graham and was instructed to proceed at once to secure necessary data for putting the department in operation.

It was decided that the purchasing department should also begin work at once to secure for members of the society through co-operation and the purchasing of large quantities of material, lower rates upon such supplies as glass, iron pipe, coal, etc. Messrs. E. M. Wood, W. W. Coles and W. K. Harris were constituted the committee.

The legislative committee will be entrusted with the duty of watching for and discouraging adverse legislation, either state or national, and encouraging such legislation as shall be considered favorable to the trade. The committee already acting for the New York Florists' Club on similar work, consisting of Messrs. Patrick O'Mara, J. N. May and C. H. Allen, were endorsed and appointed to represent the Society of American Florists in a similar capacity.

The purpose of the claim department is to act on behalf of the members of the society to look after the adjustment of claims against transportation companies.

The arbitration committee will be entrusted with the duty of helping members to settle mutual differences without recourse to law.

The two latter committees were not constituted by the executive committee—the necessity for immediate action not being apparent, but the committee will recommend to the society at its meeting in August that they be established—the secretary to be a member ex-officio, of the committee in each of these departments.

In response to what seemed to be a general demand for a revision of the methods of making awards at the trade exhibitions, it was decided that the past system of awarding certificates should be discontinued and the competitive features heretofore encouraged, eliminated. The old rule in reference to the making of awards was replaced by the following: "Judges shall examine all exhibits and make mention of such as are, in their opinions, of special value, and shall only award certificates to new plants, improved appliances and approved florists' requisites, not previously exhibited before this society." It was also voted that all parties hereafter, who win awards of value, shall qualify themselves as members in good standing before receiving such awards.

All other matters relative to the management of the trade exhibition at Omaha were left to a committee consisting of the president, vice-president and secretary, who will visit Omaha early in May and make all necessary arrangements toward securing a successful convention in all its departments. Propositions looking to the securing of a special train to travel from some eastern center to Omaha and take up delegates at various points en route, were also referred to the same committee.

The following subjects for discussion at the sessions of the convention were selected: "The American Bulb Industry," (and, incidentally, the lily disease; its cause and its remedy), discussion to be opened by Mr. M. G. Kains of the Department of Agriculture, Washington. "Trade Exhibitions," their value to the florist trade, to be opened by Mr. E. H. Cushman, Euclid, O. "The Influence of Public Parks," "Grafted Roses for Growing Under Glass," "The Effect of Improvement in Varieties and of Improvement in Cultural Methods," were all selected as subjects to be discussed, and to be assigned at a later date to competent persons. How to interest the retail trade in artistic decorative work was a subject discussed at length, and a general invitation will be sent out for a contribution of photographs of such work, to be shown at the exhibition hall in Omaha.

The Carnation, Chrysanthemum and Dahlia Societies will be invited to provide one essayist each on subjects connected with their special work. It was decided to offer the same number of silver and bronze medals for competition at Omaha as was offered at Providence last year—one of which will be given to the best exhibit of American grown bulbs and the balance of the schedule to be announced later.

The treasurer's report showed the gratifying fact that there is a balance of \$135 more in the treasury than at a corresponding date last year.

On the committee table was a vase of magnificent blooms of the rose Golden Gate, grown and contributed by Gude Brothers, of Washington.

WM. J. STEWART, Sec'y.

BRIDGEPORT, CONN.—E. C. Bassick died Saturday, March 12.

ALBANY, N. Y.—Thos. Wade has opened a new store at 104 Pearl street.

## Philadelphia.

**BUSINESS STILL DULL.—BEAUTIES CHEAPER.—STOCK PLENTIFUL.—SWEET PEAS ARRIVING.—MILD WEATHER.—D. D. L. FARSON GONE OUT OF BUSINESS.—PERSONAL.**

No. business has not improved much over that of last week; it is dull, very dull; to be sure there have been some store decorations and a few small weddings, but the transient business still continues very slow. The bottom has dropped out of the Beauty market as far as prices are concerned, and they are to be had at almost any figure, the very best going for three dollars per dozen and many left over at that. The smaller sizes go for a mere song; \$4 to \$6 is high for teas, with the exception of a few specials which bring \$8 to \$10. Carnations at \$1 to \$1.50 have commenced to pile up. A few of the finest bring \$2 to \$3. Sweet peas are becoming quite common and sell for \$1 to \$2 per hundred sprays. Violets are almost past quoting, about 50 cents per hundred for the best with a limited sale is the price, in quantity very low prices are realized. Bulbous stock is all about the same figure, from \$2 to \$4 per hundred being the price. Harrisii lilies sell slowly at from \$8 to \$10 dollars per hundred flowers.

Plants in flower are in evidence in all the stores, but just now they, along with everything else, are selling slowly.

The mild—in fact hot—weather of the past week has given the growers considerable uneasiness as it is bringing the Easter stock along very fast; 70% out of doors is very warm for this season, and extra precautions have to be taken to prevent the stock coming on too fast.

As Easter draws near there seems to be quite a lot of lilies coming into sight and it is quite probable there will be enough to go around at about the same figures as last season.

John Wanamaker has commenced his annual sale of Dutch budded roses, and one does not go very far on the shopping streets without seeing bundles of them being lugged about by amateur rose growers, 15 cents each or two for 25 cents, and \$1.25 a dozen is the price.

D. D. L. Farson has closed up his establishment and gone out of business. The petty annoyances of the retail merchant were too much for Dan, and he gave up in disgust after a little over a year's experience.

Messrs. Walter Coles, E. D. Smith and H. B. Beatty of the executive committee of the Society of American Florists stopped over a day or two in this city on their way home from Washington. The western members always lay out routes in going about this city so as to take in as many oyster saloons as possible. It is related how many the Kokomo member put away at one sitting, but we forbear as we don't like to be called unreliable.

Chas. E. Meehan and a number of his Germantown friends had a private reception in the club room last Tuesday evening, a very enjoyable time was the result. A like privilege will no doubt be enjoyed by other members in the near future. K.

## Cincinnati.

Business the past week has been on the decline, and flowers of all kinds are now plentiful. Roses have fallen off in prices, with the exception of choice Beauties. Bulbous stock is in good supply with little demand. Carnations of good quality are holding their own, prices have varied from \$1.50 to \$2.50 per 100 for fancy. Violets are a terrible glut, and buyers of

large quantities are able to secure all they need at their own figures. Retail trade is quiet all over the city and St. Patrick's Day passed by unnoticed. The first part of this week more activity in funeral work was felt.

At the Christ Moerlein funeral (of the Christ Moerlein Brewing Co.) I noticed one emblem which deserves special mention. It was a solid white vase resting on a base of loosely arranged cypress leaves, interspersed with Beauties and lilies of the valley. The design was five feet high and the top about twenty inches in diameter, it was filled with Beauties and Asparagus plumosus. A garland of Beauties was fastened at the top, drooping gracefully over one side, with several doves resting among roses at the other side. The whole design showed much taste, and the workmanship was excellent. It was executed by the Hofmeister Floral Co.

We are having unusual warm weather at present with much rain. Magnolias are in full bloom, peaches showing color, and all herbaceous plants are much advanced for this time of the season.

H. SCHWARZ.

## Worcester, Mass.

Trade still continues to hold on fairly well; flowers are plentiful and prices remain steady.

Bulbous stock is moving rather slowly, especially tulips, but the bulk of it will be well cleaned out after Easter.

There has been a little violet war on the last week between Sargent and the cut-flower department of the Boston Store; at last accounts Sargent had the best end of it.

The weather continues warm and spring-like and robins and bluebirds are with us, but as yet we have seen no Dutchman.

A. H. L.

## SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1888 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By a first-class florist of 10 years' experience; good rose and carnation grower. Address A. C. M., care American Florist.

**SITUATION WANTED**—By a competent gardener and florist, private or public place preferred. First-class references. A. P. A., care Am. Florist.

**SITUATION WANTED**—By an experienced grower of roses, carnations, mums, and geraniums; 12 years' experience. Grower, care 710 3d Ave., Brooklyn.

**SITUATION WANTED**—By an experienced gardener and florist on private or commercial place; age 33, married. Best of references. W. K., care American Florist.

**SITUATION WANTED**—As foreman by single man, age 30; grower of roses, carnations, mums, violets, valley, palms, etc. First-class recommendations. F. A. H., care American Florist.

**SITUATION WANTED**—By a young Danish florist, 25 years of age, as assistant; 1 year's experience in England. First-class references. E. B., 120 Prospect Ave., Brooklyn, N. Y.

**SITUATION WANTED**—By an experienced grower of roses, carnations, violets, mums and general bedding plants, to take charge of commercial or private place. Address F. W., care Am. Florist.

**SITUATION WANTED**—A chance to learn to grow carnations, etc., by a young man; have had some experience; small wages. New England states preferred. Address A. H., care American Florist.

**SITUATION WANTED**—By practical florist, No. 1 rose grower; commercial or private position; carnations, mums, violets a specialty. References, 25 years' experience. W., care P. O. Box 56, Alliance, O.

**SITUATION WANTED**—By good orchid, palm and fern grower; first-class, all round florist and gardener, English, middle aged, single, temperate. All references. CATELEYA, 126 Duranton Ave., Syracuse, N. Y.

**SITUATION WANTED**—A man, 30 years of age, single, wants position in commercial place; good grower of roses, carnations, mums, palms and general stock. Best of references. At liberty April 1.

**SITUATION WANTED**—As manager by a competent plantsman; 18 years' practical experience in roses, orchids, palms, ferns, florists' stock in general. Capable of taking entire charge of large commercial or private place; married. References. Address H. P. S., care American Florist.

**WANTED AT ONCE**—Assistant florist. Address GOOD HOME, care American Florist.

**WANTED**—The address of Carl Jorgensen, Dane, Amager. Address L. JENSEN, South Butte, Mont.

**WANTED**—Partnership in established business, in or around Boston. Capital \$1,000 or more. OLOF OLSSON, 66 Hammond St., Boston, Mass.

**WANTED**—By April 1, a gardener and florist for commercial place; German, single man. Wages \$30 a month. JNO. FEIDEN, Great Falls, Mont.

**WANTED**—To buy or rent a florists' establishment near Omaha, Neb., or ground suitable for erection of a plant. Address A. C. ANDERSON, Leigh, Neb.

**WANTED AT ONCE**—Good, quick man, sober habits, for watering and general greenhouse work. State wages wanted. References. C. H. FREY, 1131 O St., Lincoln, Neb.

**WANTED**—Competent and first-class practical florist to take charge of 5 rose and carnation houses; good worker; married man preferred; natural gas here. State salary expected. Address L. A. JENNINGS, New Castle, Ind.

**WANTED**—A buyer for an established florist business and greenhouses. Everything in first-class condition. A fine stock of all plants, roses and carnations. City water, steam heat; 3 houses, 3000 feet glass; fine large office, boiler house, potting sheds, cold frames, etc.; large cut flower cellar; cement walk, stone curb and streets improved; land 150x132 feet. In thriving Indiana town of 5000; health and pleasure resort, six large sanitariums. No competition within 30 miles. A bargain if sold at once; 1/3 cash, balance to suit purchaser. Speak quick. Address MEXICO, care American Florist.

**FOR SALE**—Greenhouses on principal street in the city. For particulars apply to J. H. REBSTOCK, 64 Main St., Buffalo, N. Y.

**FOR SALE**—Cheap for cash, an old-established florist and seed store in Chicago drawing good business; owner has two places. 174, care Am. Florist.

**FOR SALE OR RENT CHEAP**—Six well-stocked greenhouses, dwelling, etc. Best R. R. facilities, no competition. Reason, poor health. W. L. WINN, White Hall, Ill.

## FOR SALE.

One dwelling house, two greenhouses 17x150, newly built, well located and good home trade, on street car line, near city of 300,000 population. For particulars address H. S., care American Florist.

## FOR SALE.

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write A. LEUBNER, Wausau, Wis.

## Situation Wanted.

**A COMPETENT MANAGER** of thorough ability and over 20 years' practical experience desires a position to take entire charge of private estate, park or first-class commercial place; an experienced cultivator of palms, orchids, florists' stock in general, shrubbery, fruit and vegetables; a good floral decorator. Thoroughly reliable, married, with small family. Good wages required. Address

FLORIST, care S. J. Nelson,  
206 E. 28th St., New York.

## BUSINESS OPPORTUNITY

I HAVE a lot of seven acres at Atlanta, Ga., fertile and well adapted for growing flowers. Many varieties now growing. I want to talk business to florist with capital and experience. Fine climate, population 110,000. Call on or address

HENRY ROBSON,  
200 Wobash Ave., - CHICAGO, ILL.

Wanted  
For Easter!

A house of Harrisii or Longiflorum Lilies in bloom, for cut flowers.

Address "LILIUM,"  
care Eastern Office, 67 Bromfield St., Boston, Mass.

It is not much trouble to mention the AMERICAN FLORIST when corresponding with an advertiser.



**Diseased Callas.**

What is the matter with callas rotting off in the stem at the base? Out of 200 fully one-half have done that way in pots and bench. The roots start with fine strong growths and ready to bloom. All at once they fall over and are gone. I have never seen callas behave that way and have grown them every year under the same treatment. Do you know any cause for it?  
H. STEINMETZ.

The callas are affected with a rot that develops in the crown, where the leaves join the corm. The germs of the disease are doubtless inside when the plants are set out, and came from the region where they were last grown. The disease is known to occur in California, but does not seem to have become established east of the Rocky mountains. No remedy has yet been suggested. Every plant with the soil about it should be removed as soon as the disease shows, and thus keep healthy plants from contracting the disease.  
J. C. ARTHUR.

**Cure for the Rotting of Bulbs.**

If you are ever troubled with bulbous plants decaying on the side of bulb, stem or leaf, take three-fourths lime (air-slaked will do) and one-fourth sand; make a stiff plaster. Remove all the decayed portions and give the parts affected a thick coat, and keep that way until all signs of decay have left. Place your plants in a moderately warm place and do not water too much; keep water from the affected part, and in a short time your plant will outgrow it.  
A. F. WIENOLD.

TRAVERSE CITY, MICH.—Charles Gunton has started in the greenhouse business on Randolph street, at the location formerly occupied by the Traverse City Floral Co.

DAYTON, O.—The new greenhouses at the Soldiers' Home will be erected in May.

**COMPLETE LINE OF SUPPLIES**  
**WIRE WORK**  
— WE —  
CAN MAKE  
FOR YOU  
IMPORTERS  
OF  
**BULBS**  
PHONE 1273  
BOX 75  
**ELLIS & POLLWORTH**  
MILWAUKEE, WIS.

**ALWAYS ON HAND FINE STOCK CUT FLOWERS**

**Wholesale Flower Markets**

CINCINNATI, March 24.

Roses, Beauties select	25 00@35.00
"    medium	10 00@20.00
"    Brides	4 00@6.00
"    Bridesmaids	4 00@6.00
"    Metecors	5.00@7.00
"    Perles	4 00@5.00
Carnations	1.50
"    fancy	2.00@3.00
Lily of the valley	2.00@3.00
Romans	3.00
Narcissus	3.00
Daffodils	3.00
Violets	.50
Harrisii	10.00@12.50
Callas	3.00
Tulips	1.00@2.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, March 24.

Roses, Beauties	3 00@50 00
"    Metecors	1.00@6.00
"    Brides, Bridesmaids	1.00@6.00
"    Perles	1.00@6.00
"    Wootton	1.00@6.00
"    La France	2.00@6.00
"    Kaiserlin	2.00@6.00
"    Carnot	1.00@6.00
Carnations	1.00@3.00
Violets, California	.20@.50
Lily of the valley	2.00
Harrisii	10.00@15.00
Callas	8.00@10.00
Tulips	3.00@5.00
Narcissus, Romans	1.00@2.00
Smilax	10.00@15.00
Freesia	2.00@2.50

MILWAUKEE, March 25.

Roses, Beauties per dozen	1.00@3.00
"    Brides, Bridesmaids	3 00@6 00
"    Perle, Belle	2 00@5 00
"    Metecors	3 00@6 00
Carnations	1 00@2 50
Violets	.50@.75
Romans	2 00@3 00
Lily of the valley	2 00@3 00
Freestias	2 00@3 00
Tulips, Hyacinths	2 00@3 00
Van Slons, Jockills	2 00@3 00
Callas, Harrisii	8.00@12.50
Smilax	15 00

BUFFALO, March 24.

Roses, Beauties	10.00@50.00
"    Brides, Bridesmaids, Metecors	3 00@6 00
"    Perles	2 00@3 00
"    Niphotos	2 00@3 00
"    Kaiserlin, Mermets	5 00@8 00
Carnations extra	2 00@3 00
"    ordinary	1 00@1 50
Lily of the valley	3 00@4 00
Violets	.50@1 00
Romans	2 00@4 00
Harrisii	6 00@10 00
Smilax	12 50@15 00
Adiantum	1 25@1 50
Asparagus	30 00@75 00

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

The Denver florists' and Nurserymen's Exchange,  
1501 Lawrence St., Denver, Colo.

for the accommodation of the Denver Florists and Nurserymen and for the benefit of the Western Trade in general. Will furnish you everything you need for the Greenhouse and Garden. We pay cash for our wants in the Cut Flower line. Send us a list of your **Surplus Stock**. Let us figure on anything you need. Terms cash. Also Cut Flowers, etc., bought and sold, on commission. Ask for our new and original Telegraph Code; very useful for new trams.

F. A. Haenselmann, Mgr.

**C. A. KUEHN, Wholesale Florist,**

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

**MOUND CITY CUT FLOWER CO.**

Wholesale Florists.

CONSIGNMENTS SOLICITED

Special attention given to shipping orders

1322 Pine St., ST. LOUIS, MO.

**C. W. WORS**

2740 Olive Street,  
ST. LOUIS, MO.

**FLOWERS** at WHOLESALE

ROSES, and a full line

Headquarters for the South West

When writing mention American Florist

**ST. LOUIS CUT FLOWER CO.**

Wholesale Florists

**E. H. MICHEL**

1620 Olive St.  
ST. LOUIS, MO.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST

495 Washington St., Buffalo, N. Y.

Also Dealer in Florists' Supplies and Wire Designs

W. A. MCFADDEN,

**"Rosebank"**

NEAVE BUILDING, CINCINNATI.

Producers and Shippers of every description of High Class Floral Supplies.

**GATLEYAS and DENDROBIUM NOBILE.**

Quotations issued weekly, forwarded on request.

**H-L-SUNDERBRUCH & CO**  
WHOLESALE COMMISSION FLORISTS  
4th and WALNUT STS.  
CINCINNATI, O.  
CONSIGNMENTS SOLICITED  
SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

**WE WILL HAVE THEM!**

8,000 CUT

**Harrisii Lilies for the Easter Trade**

ALSO ALL OTHER SEASONABLE FLOWERS  
PROMPT SERVICE. At the Right Prices. GOOD PACKING.  
Place your order now for Easter delivery.

**HOLTON & HUNKLE CO.**

Wholesale Florists and Florists' Supplies. 457 MILWAUKEE STREET, MILWAUKEE, WIS.  
Wire Work. 'Phone Main 874. P. O. Box 103.

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
 WHOLESALE  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**KENNICOTT BROS. CO.**  
 WHOLESALE CUT FLOWERS  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING,**  
 WHOLESALE  
**COMMISSION FLORIST,**  
 51 WABASH AVENUE,  
 Consignments Solicited. CHICAGO.  
 Prompt attention to shipping orders.

**A. G. PRINCE & CO.**  
 Wholesale Cut Flowers  
 AND FLORISTS' SUPPLIES.  
 ROOTED GARNATION CUTTINGS  
 Albertina and Bridesmaid, \$2.00 per 100;  
 Daybreak, \$1.50 per 100; Lizzie McGowan,  
 Ivory, Lizzie Gilbert, Fred Dorner and  
 Rose Queen, \$8.00 per 1000.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us.  
**WIRE DESIGNS: A Full Line.** Write us for  
 our illustrated Catalogue.

IF YOU WANT EASTER FLOWERS  
 OR FLORISTS' SUPPLIES

LOOK FOR THE AD. OF THE

# TRIPLETS

*In NEXT WEEK'S Issue*

## Wholesale Flower Markets

CHICAGO, March 25

Roses, Beauties . . . . .	per doz. 1.00@4.00
" Brides . . . . .	3.00@ 5.00
" Meteors, Bridesmaids, Kaiserin . . . . .	3.00@ 5.00
" Perle, Gontiers . . . . .	1.00@ 3.00
" La France, Testout . . . . .	4.00@ 8.00
Carnations, common . . . . .	1.10@ 2.00
" fancy . . . . .	2.00@ 5.00
" . . . . .	40@ 40
Violets . . . . .	2.00@ 3.00
Narcissus, Romans . . . . .	8.00
Callas . . . . .	6.00@ 8.11
Harrisil . . . . .	2.00@ 3.00
Lily of the valley . . . . .	1.00@ 4.00
Tulips . . . . .	3.00@ 6.00
Von Sions . . . . .	1.00@ 2.00
Hyacinths . . . . .	3.00@ 6.00
Adiantum . . . . .	1.00
Smilax . . . . .	10.00@12.00
Asparagus . . . . .	40.00@75.00

**W. E. LYNCH,**  
 Consignments Solicited. **CUT FLOWERS.**  
 All Florists' Supplies.  
 19 & 21 RANDOLPH STREET,  
 Fine Stock a Specialty. CHICAGO.

**A. L. RANDALL**  
 Wholesale Florist  
 DON'T FORGET that we are at the old number,  
 126 Dearborn St., Chicago.  
 Write for special quotations on large orders.

**ILLINOIS CUT FLOWER CO**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**N. Y. CUT FLOWER EXCHANGE**  
 404-412 E. 34th St. Near Ferry.  
 Open for Cut Flower Sales at 6 o'clock  
 Every Morning.....  
 DESIRABLE WALL SPACE TO RENT  
 FOR ADVERTISING.  
 JOHN DONALDSON, Secretary.

**Ford Bros...**  
 Wholesale Florists  
 111 West 30th Street, NEW YORK.  
 Consignments Solicited. Telephone, 260 38th St.

**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1675 38th St.

**THE NEW YORK CUT FLOWER CO.**  
 119 and 121 West 23d Street,  
 112 and 114 West 24th Street,  
 Telephone 733-18th. NEW YORK.  
 CONSIGNMENTS SOLICITED.  
 Special Attention Given to Shipping Orders.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of  
**CUT FLOWERS,**  
 51 WABASH AVENUE,  
 CHICAGO.  
 HEADQUARTERS FOR AMERICAN BEAUTIES.

# REINBERG BROS.

WHOLESALE GROWERS OF

## ...CUT FLOWERS...

500,000 feet of Glass. We can fill all orders on short notice with all leading varieties of  
 Roses and Carnations. We Are Headquarters for fine American Beauties. Give us a trial and  
 convince yourself.

### ROOTED ROSE CUTTINGS

Plants in 1-cent tin, sent by express at point  
 rates (20 per cent less than Milan rates).

	Per 100	Per 1000
BRIDE	\$1.50	\$12.50
BRIDESMAID	1.50	12.50
PERLE	1.50	12.50
METEOR	1.50	12.50
KAISERIN	1.50	12.50
BELLE SIEBRECHT	1.50	12.50

### ROSE PLANTS

	out of 2 1/2-inch pots.	per 100 per 1000
Meteor . . . . .	\$3.00	\$25.00
Perle . . . . .	3.00	25.00
Bride . . . . .	2.50	22.50
Bridesmaid . . . . .	2.50	22.50
La France . . . . .	2.50	22.50
Kaiserin . . . . .	2.50	22.50
Belle Siebrecht . . . . .	2.50	22.50

### ROOTED CARNATION CUTTINGS.

	per 100 per 1000
<b>JUBILEE</b> . . . . .	<b>2.00 15.00</b>
Wm Scott . . . . .	1.00 7.50
Nancy Hanks . . . . .	1.00 7.50
Tidal Wave . . . . .	1.00 7.50
Portia . . . . .	1.00 7.50
Lizzie McGowan . . . . .	1.00 7.50
Kohlmeier . . . . .	1.00 7.50
Goldfinch . . . . .	1.00 7.50
Mrs Thompson . . . . .	1.00 7.50
Daybreak . . . . .	1.50 12.50
Emma Woche . . . . .	1.50 12.50
Meteor . . . . .	1.00 12.50
Lizzie Gilbert . . . . .	1.50 12.50
Harrison's White . . . . .	1.50 12.50
Bridesmaid . . . . .	1.50 12.50
Nivea . . . . .	3.00
Flora Hill . . . . .	4.00 35.00

REINBERG BROS., 51 WABASH AVENUE, CHICAGO.



**Dahlia Notes.**

A CORRECTION.

I am in receipt of a letter from Messrs. E. H. Krelage & Son, of Haarlem, Holland, under date of February 25, 1898, from which the following is an extract.

"Referring to dahlias we may be permitted to say that the statement in the AMERICAN FLORIST of January 8 which refers to Prof. Bailey's visit to our nurseries, is not quite correct. The true cactus dahlias are now preferred to the 'decoratives.' The latter are excellent for bedding, but the former are superior for show and cutting purposes. We think the term 'decorative' to be better than the German 'Cactus dahlia hybriden,' which may lead to confusion and does not mean anything. The number of true cactus dahlias introduced in 1897 was about fifty and there will be as many as seventy novelties in this class this year. Probably a dozen will prove to become standard varieties of the future."

The italics in the clause beginning "Which may lead," etc., are mine. I have introduced them to emphasize the evident position of the Messrs. Krelage in regard

to the use of the terms "cactus" and "decorative" and because I most heartily endorse them, only in America confusion already exists. The extract occurs in a private business letter and is all that refers to the subject and was not suggested by anything in the previous correspondence. It is therefore highly interesting as showing the evident desire of the Messrs. Krelage to be placed right on the record.

H. F. BURT.

**Old Orchard, Mo.**

If I may thus express it, Mr. H. E. Michell seems to be right "in it" in so far as the cultivation of palms and ferns is concerned. The plant formerly belonging to Wm. Trillow, comprising eleven houses, and originally built for roses, has been completely remodelled and adapted for palms, it being Mr. Michell's intention to give a deal of his time to this branch.

I may mention, in passing, that the cultivation of palms in this latitude is as yet in its infancy, and though some attempts have been made, with more or less success, to grow a few latanias, none, to my knowledge, have ever experimented

upon a general stock, such as kentias, Areca lutescens and ferns. Mr. Michell's venture, therefore, seems to be of the right sort.

What impressed me most favorably about the place was the strong, healthy and vigorous growth of the stock. What is generally termed as "drawn" plants were conspicuous by their absence. His ferns especially are in the best of condition.

A houseful of latanias in 4 and 5-inch pots were very interesting, being remarkably clean and healthy. Taken all in all my visit to Old Orchard was an enjoyable treat.

HOMO.

**Carrolton, Mo.**

The Hillside Greenhouses, owned by Kennedy & Farnham, were badly damaged by hail on the afternoon of March 18. About 3000 feet of glass was lost; there was no insurance. Single strength glass suffered the most. The stock was not injured to any great extent.

GEO. W. KENNEDY.

# Garnations, Violets, Lily of the Valley

And ALL OTHER FLOWERS at Lowest Market Rates . . . . . FOR EASTER

## CARNATIONS

A SPECIALTY

WE control more carnations than any house in the country and can fill orders Large or Small.

HARRISII to SUPPLY ALL

## Harrisii In Great Numbers!

SMALL AND LARGE ORDERS BOOKED ON HARRISII . . . . .

Order of us any kind of Rooted Carnation Cuttings. We will get them for you. Special line of Bulb Stock for Easter. Get your orders booked.

## HARRISII FOR ALL!

## Lily of the Valley

WESTERN AGENTS for E. G. Asmus' high grade stock. Best and most uniform grown.

## TULIPS

of all kinds. Klehms Novelty a Specialty.

See our Price List for Easter in all trade papers. Book orders early, as we fill in rotation. Write for Catalogue and Cut Flower Price List.

# KENNICOTT BROS. COMPANY,

88 Wabash Avenue, CHICAGO.

LONG DISTANCE TELEPHONE Express 466.

ROOMS 22 & 23.

## GRAND NEW VIOLET "LA FRANCE"

STRONG VIGOROUS GROWER  
EXTRA FREE FLOWERING  
RICHEST COLOR

Of the many new Violets introduced in the past few years this, the latest introduction of the foremost French specialist, is unquestionably the BEST. It has been thoroughly tested by Mr. Super, the Violet expert, who pronounces it "perfect," and flowers which we have exhibited during the past few weeks have been much admired. In vigor of growth, freedom of bloom and in size and coloring it is superior to all existing sorts, and will soon supersede them. Only a limited stock will be offered this season, and orders will be filled in strict rotation.

Price, \$1.25 per dozen; \$10.00 per 100.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.





# JADOO



Extracts from Letter of March 15, 1898  
...FROM...

**Wm. Wallace Lunt, Esq.**


16 OLIVER ST., BOSTON, MASS.

“ . . . . . Experiments with other plants are just as satisfactory, notably with Rubbers, Fuchsias, Gloxinias and Ferns.

“ . . . . . If Horticulturists have brains and are willing to use them, by all means grow your plants in JADOO, but if you are going to grow plants on the hit-or-miss plan, let it alone.”

---

WHERE TWO MEN GROW THE SAME PLANTS IN JADOO,  
AND ONE SUCCEEDS WHERE THE OTHER FAILS, IS THE  
FAILURE THE FAULT OF THE JADOO OR THE GROWER?

For the results obtained from the intelligent  
use of 

## Jadoo

By practical growers, address 

**THE AMERICAN JADOO COMPANY,**

815 Fairmount Ave., PHILADELPHIA.

Mention The American Florist.



**Why Some Carnations Fail.**

There is one thing positive about this carnation business, and that is the impossibility to judge a carnation by one season's trial, unless it be such a rank failure that the condemnation be so general as to remove all doubt.

Mr. Herr may be right as to the cause of failures among the common herd, but I think there is another cause, at least from my experience. Very few of the general run of florists care to invest very heavily in any seedling at its first introduction, and when they do buy it is only a few plants. Should the first flowers strike their fancy, then they are worked for all there is in them; the plants are immediately stripped of everything that looks like a cutting; this process is kept up all the time, even the first cuttings are cut back or down to the pot in order to give another cutting. The main object seems to be quantity, and just so the highest possible number is reached is all that is thought of. The next season many plants are weak, give a larger percentage of poor flowers, and show no vigor until spring, by that time the soil has become sour and it is again an uphill business for the poor plant. It is spoken of as a variety that will produce a few nice flowers, but it does not pay to grow it, and out it goes; and they hang on to Snowden, Hinze's White, or some other back number. I have seen Scott thrown out because two plants were treated just as I have described, and such a failure as Mrs. Garfield kept in its place.

I remember the first batch of Hector that I handled as they came from the florist (fifty in all). They were boxed and transplanted to the field with the rest and seemed to do well. I did not see them housed, but knew about the exact treatment they received. I heard later that they had proven an utter failure, and to my understanding I thought Hector (from the report) a fizzle. You may imagine my surprise last fall while attending the Indianapolis show of seeing my old friend Hector in all its glory, and I thought it was as fine a bunch as there was at the show of its color.

While condemning carnations, why not roses? How many really can grow first-class Beauties? Yet no one will dare say that Beauty is no good. Look at the scrubby Brides, Perles and Bridesmaids you run across, and that does not condemn roses. Growers make every effort to comply with the general wants of a rose; build houses for one kind and import a certain soil; but with a carnation it is different. They are all dumped into one house, given a general treatment, and if they stand they are O. K., if not, they are called a fraud or humbug.

A. F. WIENOLD.

**Kirkwood, Mo.**

There are violets and violets. Those that I saw at the Ude Brothers' establishments during a recent visit are well worthy of the name. Seldom have I seen anything to equal them. The Californias especially are grown with remarkable success, and between the three brothers, F. W., H. G. and C. M. Ude, it would be hard to determine who is really the most successful grower.

Mr. F. W. Ude also grows carnations, and some of the best that the St. Louis flower market affords come from his place. His Daybreaks, Jubilees and Scotts never go begging. A white Daybreak is one of Mr. Ude's latest acquisitions. It is a sport of Daybreak, and like the latter it bids fair to make its mark. HOMO.

# EASTER FLOWERS

BUY DIRECT FROM THE GROWERS.

## Bassett & Washburn,

\*\*\* WHOLESALE GROWERS OF AND  
... DEALERS IN **Cut Flowers**

### HARRISII LILIES

25,000 for Easter. We have the largest and finest stock in the West. Our long experience in handling these lilies enables us to deliver them in the best condition. We guarantee them to arrive without bruising if shipped in boxes of 75 or 100, direct from our greenhouses without repacking. Price \$10.00 to \$12.00 per 100.

### AM. BEAUTIES

50,000 plants to cut flowers from and they are now in full crop. A very large quantity of Brides, Kaisersins, Bridesmaids, Meteors and Perles, all our own growth.

### FANCY CARNATIONS

as well as good common sorts. \* \* \* \* \*

### LILY OF THE VALLEY

15,000 extra choice cold storage pips at three cents. This is fresh cut every day. \* \* \*

### TULIPS

A large quantity of all kinds and Daffs or double Von Sions, all best quality. \* \* \*

### ASPARAGUS

3000 strings at 30 cents per string. \* \* \* \* \*

### SMILAX....

is very scarce and \$2.50 to \$3.00 per dozen, but we shall have 3000 strings. \* \* \* Our flowers are all carefully chilled before shipping. Write us for our weekly price list.

## BASSETT & WASHBURN

STORE: 88 WABASH AVENUE.

GREENHOUSES:  
HINSDALE, ILL.

 CHICAGO.

# THE AMERICAN FLORIST

For twelve years the representative paper of the Florist, Nursery and Seed trades.



## ==SPECIAL== EASTER NUMBER

### APRIL 2, 1898.



#### ADVERTISING RATES:

Per Page (30 inches) . . . . . \$30.00  
Per Inch . . . . . 1.00

Advertisements of less than 1/2 inch not solicited.  
Three 10-inch columns to the page (30 inches).  
Special position not guaranteed.

#### Discounts for Consecutive Insertions:

Less than 6 times, net.      6 times, 20 per cent.  
6 times, 5 per cent.      12 times, 30 per cent.  
12 times, 10 per cent.



**T**HE ISSUE of the AMERICAN FLORIST for this date will be sent to all the new names obtained for the 1898 Directory, which is compiled at this office, and will be mailed to 13,000 buyers of florist, nursery and seed stock and supplies.

No extra charge for advertising space in this number and the usual discounts for time contracts will be given.

## SEND COPY AT ONCE

Early orders will receive our best attention as to display and position.

AMERICAN  
FLORIST COMPANY

324 Dearborn Street,  
CHICAGO.

**TELEGRAPH CODE**  
OF THE  
**AM. SEED TRADE ASSOCIATION**  
\$4.00,  
In either stiff or flexible cover  
ADD HERE ORDERS TO  
**AMERICAN FLORIST CO.,**  
CHICAGO.

*Surplus Stock*  
Can be disposed of by  
advertising. Try it....  
This Size "Ad." Costs Only \$1.00.  
AMERICAN FLORIST CO., CHICAGO.

**THE AMERICAN FLORIST'S**  
**COLOR CHART**  
is now accepted as the standard in preparing color  
descriptions, by many foreign houses as  
well as in America.  
**PRICE 15 CENTS POSTPAID.**  
**AMERICAN FLORIST CO., 322 Dearborn St., Chicago.**



**Cypripedium William McKinley.**  
NEW HYBRID.

*Cypripedium insigne* Chantini × *C. Harrisianum* superbum. This new hybrid has the blood of three distinct species, *C. Harrisianum* itself being of hybrid origin, being *C. barbatum* × *C. villosum*, which too claims the distinction of having been the first hybrid cypripedium ever raised. Thus it is seen the new one under notice has *C. insigne* Chantini as the seed parent, and the influence of *C. barbatum* and *C. villosum* imparted to it through the pollen parent, with the result that excepting the color, which it imparted to its hybrid *C. Harrisianum*, the species *C. barbatum* is wiped out; in the next resultant hybrid, *C. cenanthum*, it is the species *C. villosum* which becomes obscured, whilst in the new hybrid William McKinley the influence of *C. villosum* returns in such force as to make itself noticeable in a very marked degree.

The following technical description will give a good idea of the principal characteristics. Foliage long, broad and spreading, bright green with a darker green tessellation and slightly spotted at the outside base; flower scape green, minutely spotted with purple brown, very hirsute, bract apple green, speckled at the base; ovary pale green, densely hirsute along the ridges; the dorsal sepal measures two and one-half inches deep by two inches in breadth, delicate green with many well defined lines of minute brown spots, here and there broken up by larger ones, and a venation of darker green which ramifies in every direction; the whole dorsal sepal is broadly margined with frosted white, which some crystalline effect is observed over the entire flower; basal sepal very large, very delicate pale green over which is very prominent darker green venation, lined at the base with small blackish spots, tipped with white and that same crystalline effect which is indeed so charming; petals five inches across, very broad, golden bronze netted and shaded with bright chestnut brown, inferior halves near the base spotted with rich brown; lip very large, beautifully formed, yellowish green shaded with fawn brown on the face and which spread in nerves over the entire surface, the orifice is lined with short hairs on the golden yellow rim; staminode granulose golden with a faint green base.

It will be seen that the affinity this hybrid has with others of similar parentage is entirely wiped out or so obscured as to preclude its being taken for a variety of them, and it had the qualifications necessary to obtain a first-class certificate from the Massachusetts Horticultural Society on January 22. It is dedicated to William McKinley, our President, by the possessor and raiser, Mr. C. G. Roebbling, of Trenton, N. J., and who had desired it named in compliment to a man well known in public life.

HENRY T. CLINKBERRY.

Niagara Falls, N. Y.

A fine central location in this city has been secured by W. J. & C. J. Biggar on which they will—this season—erect new modern greenhouses and necessary building for their retail florist business. They contemplate heating by electricity. Undreamed of possibilities are here in store, only awaiting development in the use of electric heat, power and light for greenhouse purposes. This will be the only establishment of the kind in the United States, if not in the world, and the result will be looked for with interest.

# Palmer's Hot Bed Mats

**FROST  
PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

## Indestructible, Cheap and Warm

WILL not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

### MADE IN FOLLOWING GRADES:

No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

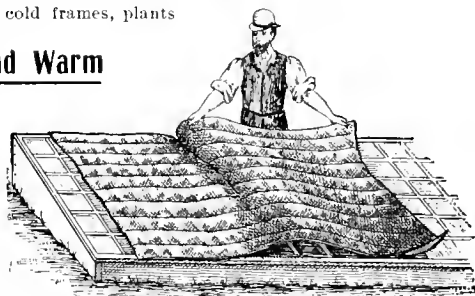
Size 40x76 inches, 50 cents each.  
76x76 " " 75 " "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.

Size 40x76 inches, \$0.75 each.  
76x76 " " 1.00 " "

Made any length, 76 inches wide, at 16 cents per running foot.



No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.

Size 40x76 inches, \$1.00 each.  
76x76 " " \$1.25 to \$1.50 each.

Made any length, 76 inches wide, at 20 cents per running foot.

That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.

PATENT APPLIED FOR.

WE ALSO MAKE **QUILTED HORSE BLANKETS** the Cheapest, Warmest and Strongest in the World...

## The R. T. Palmer Co.

Or New London, Conn.

113 Worth Street, NEW YORK

Address all correspondence to The R. T. Palmer Co., New London, Conn. Agents wanted—pay good commission.

Mention American Florist.

## Special Easter Number

THE issue of the American Florist for **APRIL 2** will be the annual Easter or Spring Number, and will be sent to all the new names obtained for the 1895 Directory.

THIS IMPRINT ON  
AN ENGRAVING

**MANZ  
CHICAGO**

IS A GUARANTEE  
OF SATISFACTORY  
QUALITY. ....

Manz makes illustrations for this paper.

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CHICAGO

## GEO. E. COLE & CO.

Blank Book Makers,  
Stationers and Printers

86 and 88 Dearborn Street,  
CHICAGO.

... THE ...

## "Lyon-Horticole"

is an interesting review of French horticulture. Issued semi-monthly. 20 8-vo. pages illustrated. Subscriptions to the United States, 1 year, \$2.00; 6 months, \$1.00. Address

DIRECTEUR LYON-HORTICOLE,  
Lyon-Villeurbanne, France.

FLORISTS' MUTUAL

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Application Blanks and  
Prospectus ready....

Write now. Delays are dangerous.

W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

**MAIL** For Insurance against  
damage by hail,  
Address

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

THE NATIONAL

## Florists Board of Trade

C. S. LODER, Sec'y, 271 Broadway, New York.

## THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,

387 Broadway, New York City,

J. D. McBEATH, N. E. P. A.,

5 State Street, Boston, Mass.

C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

Do the American Florist a small favor. Mention the paper when writing to advertisers.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARR, 1st Vice-Pres.; S. F. WILLARD, Wettersfeld, Conn., Sec'y and Treas.

VISITED CHICAGO:—M. G. Madson; J. E. Northrup, J. O. Littlejohn.

SWEET PEA crops are reported damaged by frost in some sections in California.

ENGLISH GROWERS report that roots of early garden turnips set out for seed have been seriously injured by recent severe frosts.

Outlook for Seeds in California.

The long looked for rains have not come as yet, and the seed growers are no further ahead than they were two months ago. The cold frosty nights and the dry north winds during the day have taken all the moisture out of the ground. It is very probable that there will be many short crops this season, in fact this is one of the worst winters that our seed growers have ever experienced. Onions, lettuce, etc., are all at a standstill, and unless an early rain comes the damage will be very great. METEOR.

Cut Flower Price Lists Received.

Kennicott Bros Company, Chicago; Bassett & Washburn, Chicago; W. A. McFadden, Cincinnati; St. Louis Cut Flower Co., St. Louis; Vaughan, McKellar & Winterson, Chicago; Holton & Hunkel Co., Milwaukee; H. L. Sunderbruch, Cincinnati.

KEOKUK, IA.—Christian Leslie has re-opened his city greenhouse at 25 North Fifth street.

1878 1898

NEW Price List for If you have not received, Will mail you list illustrated descrip-



SPRING and SUMMER priced, send Postal, and beautifully illustrated Catalogue.....

H. H. BERGER & CO., 22J Broadway, NEW YORK. ESTABLISHED 1878.

(Branch for Pacific Coast, San Francisco, Cal.) Horticultural Imports and Exports from Europe, China, Japan, Australia, Mexico etc

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners

August Rölker & Sons, Spring Bulbs, Florists' Supplies, SEEDS

IMPORT ORDERS booked now for forcing Bulbs, Azaleas, Lily of the Valley, etc., for full delivery, send for terms to

52 Day Street, NEW YORK.

NEW GIANT ESCHSCHOLTZIAS, "THE GOLDEN WEST."

New Giant Fancy Cosmos, six splendid varieties, separate \$1.00; Giant Cosmos splendid mixed, 65¢; California California Sunbeams \$1.00; Special favor given on Cosmos in quantity; Apple Geranium fresh \$1 per 1000 seeds; New Large Flowering Zonale Geranium \$2.50 doz.; Impatiens, "Honeycomb Blue" \$1.00; \$12 lb. Laurustinus grandiflora \$1.00; Zinnias "New Curled and Crested" 50¢ doz.; \$5 lb. Nasturtium Good Venture Mixture, 60¢ lb.; \$2 per 15 lbs.; Nasturtium elegant (Palm) 40¢ per 100 seeds; \$5 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

MRS. THEODOSIA B. SHEPHERD, Ventura-by-the-Sea, Cal.



RAFFIA BEST QUALITY. LONG MADAGASCAR

Having purchased on a very favorable market, and wishing to move the stock quickly, make the following special low quotations for prompt orders.

In bale lots (about 225 lbs.) at 8-100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb. f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

G. C. WATSON,

Juniper, below Walnut, - PHILADELPHIA.

Seed Stores and Flower Stores

Can profitably handle our Packages of Plant Food, Attractive, take little shelf room. Valuable booklet free. Good profits.

The WALKER FERTILIZER CO., Clifton Springs, N. Y.



TRADE MARK.

We beg to inform our customers that we have removed to

No. 11 Broadway (Bowling Green Building).

Write for quotations on

JAPANESE BULBS, PLANTS AND SEEDS for fall delivery.

SUZUKI & IIDA,

No. 11 BROADWAY, (Bowling Green Bldg) NEW YORK. No. 3 Nakamura, YOKOHAMA, JAPAN.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa

Mention American Florist.

BAGS COTTON SEAMLESS, BURLAPS, ETC.

SECOND HAND BAGS BOUGHT AND SOLD. CINCINNATI BAG CO. Second and Walnut Sts., CINCINNATI, O.

F. F. C. YOUNG, Pres. V. P. SNYDER, Vice-Pres. JOS. D. BEDLE, Sec'y. R. S. FOWLER, Treas. S. M. PEASE, Gen'l Mgr.

The Cleveland Seed Co.

Contract Growers of

Peas AND Beans

and General

JOBBER IN SEEDS.

Cape Vincent, N. Y.

THE ALBERT DICKINSON CO. DOMESTIC AND FOREIGN

GRASS SEEDS

FOR

Parks, Tennis Courts, Lawns, &c.

In fancy 1 and 2 pound packages and bulk.

SPECIAL PRICES TO THE TRADE.

CHICAGO, ILL.

"BEST OF ALL" TOMATO

(FOR FORCING)

"ENGLISH" MELONS

(FOR FORCING)

FLOWER SEEDS FOR FLORISTS

Catalogues on application.

WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., NEW YORK, N. Y.

GLUCAS & BODDINGTON CO.

Importers and Exporters of

Seeds, Bulbs & Plants,

501 TO 503 W. 13TH ST.,

NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

SEND ADVS. QUICK TO BE IN TIME FOR OUR SPRING NUMBER TO BE ISSUED NEXT WEEK.

Buffalo.

The recent annual meeting and banquet of the Florists' Club seems to have infused new life into that organization and they are going ahead with some of the old-time vigor.

Great activity seems to prevail in the North parks just now. Superintendent Brothers has had a large force at work at Delaware Park.

Strong pressure is being brought to bear on the park commissioners, by lovers of fast horses, to induce them to set aside some portion of Delaware Park and construct a speedway thereon.

Visits to the park propagating houses show them to be overflowing with bedding plants. At Delaware Park, under the care of Mr. Braik, everything is in nice order, and preparations are being made to grow some fine plants for the decoration of the houses after the spring stock is planted out.

We had the pleasure of a visit from Mr. Elmer D. Smith during the past week. He was on his way home from the executive meeting of the S. A. F. and O. H.

Santa Barbara, Cal.

Charles Sexton and Paul Higgins were instantly killed by an explosion on the morning of March 16. The accident was peculiar as no one witnessed the occurrence.

Paul C. Higgins was a native of Illinois. He leaves a wife and two children. His father owns one of the finest ranches in the valley.

Charles E. Sexton was well known here, where he was for many years employed in his father's floral business, and two or three years ago became the junior partner. He was unmarried.

100 ACRES IN ORNAMENTAL TREES AND SHRUBS. Deciduous Evergreen, Hedging, Vines, Bulbs, Tubers, Etc. NEW 1898 CATALOGUE, 40 PAGES, FREE. The Wm H. Moon Co., MORRISVILLE, PENNA.

Nursery Stock Cheap

Grasses, \$3.00 to \$6.00 per 100. Hollyhocks and 20 very choice varieties of hardy Phlox cheap. 10,000 Yards of Dwarf Box. Rocky Mountain Cherry, strong, 7c each. Samples sent on receipt of price. Surplus List Free.

THE ELIZABETH NURSERY CO., ELIZABETH, N. J.

Jackson & Perkins Co.

Growers of Choice Speciatles for Nursermen and Florists ... NEWARK, NEW YORK. ROSES, NOVELTIES, Strong, field-grown, dormant plants.....

THREE NEW RAMBLERS, \$1.75 per 10; \$16.00 per 100.

Yellow Rambler (Ag'ia) The only hardy yellow climbing rose..... Pink Rambler (Euphrosyne) Clear light red..... White Rambler (Thalia) Pure white.....

Lord Penzance's Hybrid Sweet Briars, \$1.75 per 10; \$15.00 per 100. Extra strong field-grown, dormant plants.

Varieties: Amy Robsart—lovely deep rose. Anne of Ceierstein—pink crimson. Brenda—maiden's blush or peach. Flora Major—pure white, blushed rose. Lady Penzance—(b) beautiful, soft tint of copper with a peculiar metallic lustre. Lord Penzance—(b) soft shade of fawn or ecru passing to a lovely emerald yellow. Meg Merrilees, gorgeous crimson. Rose Bradwardine—beautiful clear rose.

ROSES, COMMON SORTS.

Strong, field-grown, dormant plants, \$10 per 100. We can still offer, in nice assortment, some extra line plants at the above price. List of varieties upon application.

Madame Planter, Russell's Cottage, climbing, crimson; Tenn. Belle, climbing, blush; extra heavy dormant plants, on own roots, two years old, \$5 per 100.

TREE ROSES.

5 to 7 ft., extra fine, \$3.50 per 10; \$25 per 100. Crimson, Pink, Rose Red, White, Yellow.

ORNAMENTAL SHRUBS, Per 100

Deutzias, assorted, 3 to 4 ft., \$7.00. Exochorda grandiflora, tree-shape, 3 to 4 ft., \$15.00. Exochorda grandiflora, 2 to 3 ft., \$10.00. Fringe, purple, 3 to 4 ft., \$10.00. Hydrangea Okaka, Hydrangea, Red Brandywine, Hydrangea Thos II sq., strong, field-grown, dormant plants with good crowns, \$10.00. Lilacs, new and old varieties, prices and sizes on application.

Snowball, common, 2 to 3 ft., fine, \$10.00. Snowball, Japan, 2 to 3 ft., fine, \$15.00. Snowball, Tomentosa (V. Tomentorum), 2 to 3 ft., \$5.00. Spiraea, as rt'd., very bushy, handsome plants, \$6 to 7.00. Tree Peony, Bankell, 2 yr., strong, \$30.00. Xanthoxeras Sorbifolia, a most rare and beautiful shrub, \$18.00.

Complete list of unsold stock including additional Roses and Shrubs, Clematis, Ornamental Trees, Conifers, Small-Fruit Plants and Fruit Trees sent upon application. A postal card will bring it if you mention this paper.

JACKSON & PERKINS CO. NEWARK, NEW YORK.

F. & F. NURSERIES SPRINGFIELD, N. J.

New Fruits and rare Ornamentals, Shade Trees, Shrubby, River, Speciatles, 100,000 Peach at lowest prices. Catalogue free. Agents wanted.

Mention the AMERICAN FLORIST when corresponding with an advertiser.

HARDY Herbaceous Perennials THE MOST COMPLETE STOCK IN AMERICA. PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING, The Reading Nursery, READING, MASS. ESTABLISHED 1854. When writing mention the American Florist.

HARDY SHRUBS

Assorted in 25 Varieties. My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

SAMUEL C. MOON, MORRISVILLE, Bucks Co., PA.

CLEMATIS

Large flowering varieties. Rhododendrons, Ampelopsis, Azalea, H. P. Roses, Tree Roses, etc., etc. Lilies, Tuberoses, Begonias and Gloxinias.....

Branch of The Horticultural Co. L. C. BOBBINK, Boskoop, Holland. Rutherford, N. J.

STRAWBERRIES

NEW Lloyd's Favorite NEW

A new variety that has been recommended very highly. Also Lady Thompson and Tennessee Prof. etc. \$2.00 per 100; \$18.00 per 1000. We have ten more good varieties.

BLACKBERRIES

Wonderful Triumph or Philadelphia. Of a very large size; best quality and hardiest; \$1.00 per doz.; \$7.00 per 100. We have a good stock.

RUDOLPH BARTH, Florist, 1540 No. 27th Street, PHILADELPHIA, PA. Please mention American Florist.

Rhododendrons.

Not imported and therefore hardy. Hardy Azaleas, Japanese Maples, Magnolias, (living guaranteed) Rare Evergreens. other Trees, new Shrubs, Hedge Plants. Parsons & Sons Co. LIMITED, FLUSHING, NEW YORK.



**Bench Culture of Adiantum Cuneatum.**

What soil should I use for the bench culture of Adiantum cuneatum; how far apart should the plants from 4-inch pots be set, and when is the best time to plant? What is the best way to keep slugs out of fern houses? CUNEATUM.

The bench culture of Adiantum cuneatum requires a compost of fairly good quality, the object being to produce an abundant growth of sturdy fronds, and these to be of good substance. There is no better soil for this purpose than good loam mixed with some short and well-rotted manure, using the latter in the proportion of about one part to six or seven parts of soil. Fresh horse manure should not be used in this connection, as it contains too much ammonia. Four to six inches is a sufficient depth of soil for the bed, and it is best to have the bottom of the bench sufficiently open to allow of thorough drainage. Plants from 4-inch pots should be planted fifteen inches apart, and if planted about the middle of April or even May 1, such plants ought to cover the bench well by the fall.

A light shading will be an advantage on the house during the hot weather, but should be allowed to thin off before the fronds are needed, else the growth may be too soft. Give plenty of ventilation throughout the summer, and after the plants are established an abundance of water will be needed.

It is a difficult matter to keep slugs out of fern houses entirely, but the most effectual remedy I have used is pulverized camphor, this being sprinkled among the plants rather sparingly; used in this manner I have never seen any injurious results to the plants. W. H. TAPLIN.

**Little Beauty Fuschia.**

ED. AM. FLORIST:—Will you please send me the address of the originator of the Little Beauty fuschia.

JOSEPH HILLYAR.

Little Beauty was originated by Mons. Victor Lemoine, of Nancy, France, and sent out under the name of Gracieux. Brittenbough Bros., of Bennetts, Pa., had it from us and named it Little Beauty. A. T. SIMMONS.

**BUY YOUR ASPARAGUS PLUMOSUS SEED DIRECT FROM THE GROWER.** \$1.00 per 100; \$9.00 per 1000.

**J. W. LANDEVILLE, Florist,**  
535 17th Street. - SAN DIEGO, CAL.

**April 2...**

IS THE DATE OF THE SPECIAL

**Easter Number**

# Areca Lutescens

LARGE HEALTHY STOCK

3 Plants, 6-in. Pot,	24 to 32-in. high, very bushy, each	\$1.00
3 "	7-in. " 32 to 36 " " " "	1.50
3 "	8-in. " 36 to 42 " " " "	2.00
3 "	8-in. " 42 to 48 " " " "	2.50
1 "	10-in. " 4 to 5-ft. high, " " " "	5.00

ALL MEASUREMENTS FROM TOP OF POT.

**JOSEPH HEAGOCK, WYNCOTE, Phila., Pa.**

...FINE...  
**DECORATIVE PLANTS**

JOHN H. LEY, Good Hope, D. C.

Solicits early orders for following fine stock:

<b>NEPHROLEPIS, O. Furcans</b>	Each.	Doz.
3 to 4 feet over, full, splendid plants		
50 or more fronds (in pans)	\$2.00	\$18.00
<b>NEPHROLEPIS, S. O. Furcans</b>		
Very large, full of fronds, 3 feet over		
(6-inch pots, fit for 8-inch)	1.00	9.00
<b>NEPHROLEPIS, Bostoniensis</b>		
Same sizes as above	1.00	9.00
Fine for hanging baskets, fronds drooping 3 to 4 feet below	2.00	18.00
<b>Lomaria Gibba, 4-inch, very strong</b>		1.00
<b>Pandanus Utilis, 5-inch, very strong</b>		4.00
<b>Nephrolepis Exaltata, 4-in., very strong</b>	\$10 per 100	1.50
Ferns from flats, fine little plants	10 per 1000	
100 in 10 sorts mailed as sample for	\$1.25.	

**ROBERT CRAIG**  
*Roses, Palms*  
and Novelties in Decorative Plants.  
Market and 49th Street, PHILADELPHIA, PA.

**ASPARAGUS SPRENGERII**  
6-in. pots.....\$25.00 per 100

**ASPARAGUS PLUMOSUS**  
Strong 3-in. plants.....6.00 per 100  
**The Conard & Jones Co., West Grove, Pa.**

**ORCHIDS ORCHIDS**  
Growing and Importing of  
**ORCHIDS**  
Our Specialty. Correspondence Solicited.  
**LAGER & HURRELL, - Summit, N. J.**  
Mentlon American Florist.

**Hydrangeas** FOR Easter.  
Fine plants with 10 to 30 blooms per plant. 10 cents per bloom...  
**JOHN SCOTT, Keap St. Greenhouses, BROOKLYN, N. Y.**

**Rose Hill Nurseries**  
LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Aracarias, Pandanus. New wholesale price list will be ready March 20th.  
**SIEBRECHT & SON, New Rochelle, N. Y.**  
New York Office, 409 Fifth Ave.

## DWARF PAPAYAS

MOST magnificent bedding and decorative plant known. Equal to a palm in beauty and manner of growth; grows with the ease of the Ricinus and endures drought with impunity. Plan s from 4-in. pots set out June 1st attained a height of 10 feet and though not watered once, remained fresh and vigorous throughout the extreme drought. Also produces a delicious fruit; as easily grown as a tomato. Our plants are propagated from a tree which has produced this winter 192 lbs. of fruit, the largest weighing 12 lbs. Send for half-tone illustration from photo showing bed of these plants. Every florist needs it. Price \$2.25 per 12 for 3-in. pots, ready May 1st. We are headquarters for tropical plants. Send for list.

**Martin Benson,**  
DONGOLA, - - ILLINOIS.

## LARGE FOLIAGE PLANTS

Areca Lutescens, 8-inch, \$2.00; 9-inch, \$3.00 each.  
Latania Borbonica, 8-inch, \$2.00; 9-inch, \$3.00;  
10-inch, \$4.00, and 12-inch, \$5.00 each.  
Pandanus Veitchii, 6-inch, \$1.00; 7-inch, \$1.50;  
8-inch, \$2.00, and 10-inch, \$4.00 each.

GOOD STOCK.  
**JOHN WELSH YOUNG, - Germantown, Pa.**

**FARLEYENSE**  
Stock Plants  
A few hundred extra strong clumps in 6 and 7-inch pots for sale Cheap for Cash to make room.  
**JOHN N. MAY,**  
Receiver for PITCHER & MANDA  
SUMMIT, NEW JERSEY.

**PALM** Seed. FRESH ON HAND  
per 100 1000 3000  
COCOS WEDDELIANA. . . \$1.00 \$7.50 \$20.00  
LATANIA BORBONICA . . . .50 3.00 7.50  
KENTIA BELMOREANA . . 1.00 7.00 20.00  
" FORSTERIANA . . . 1.00 7.00 20.00  
ASPARAGUS PLUMOSUS NANUS . 1.50 12.50 35.00  
" CANARIENSIS . . . . 1.50 12.50 35.00  
" SPRENGERII . . . . 1.50 12.50 35.00  
**J. L. SCHILLER,**  
404 E. 34th St., NEW YORK CITY.

**Helpful Reminders.**

The last week of March should find pansies uncovered and cleaned, with ventilation and watering attended to constantly. The same is true of forget-me-nots, daisies, etc. If any considerable number have failed it is best to transplant the good ones all in one end and use the balance of room for later sown seedlings.

You will have call for lilies this spring. It is best to order a few each of the popular varieties. Pot them now and keep cool. You can supply your customers then satisfactorily; no danger of a bulb when nicely started in a pot. What are not sold come in nicely for summer cutting, and for this reason it is well to provide a larger number of *Lilium auratum* and *L. lancifolium*.

Sort out all your cannas now, pot them and give them a warm situation if you can. There is no harm in having early bloom, and frequently better sales are insured by the bloom showing. If you can not give them all room to come in early, make it a point to have some of each of your varieties in that will serve to take orders by. Go over all your odds and ends now, giving them a cleaning, a shift where necessary, or a top dressing; these "odds and ends" are very important. Oranges are coming in bloom. *Ardisias* and *aspidistras* are in bloom. *Aralias* and *pandanus* are pot-bound. So many pretty things are let go unless you make a business of going through them at stated times.

While you are examining your stock just before sale time make your calculations on what it costs per square foot of bench room to maintain your greenhouses, and see if the stock you have for market is choice enough to bring it. This is a problem which should be considered with each lot of plants you have. You will find, usually, that one stock is so unprofitable as to consume the earnings of a profitable one. Find out at once which is the unprofitable. See that you have a few nice *dracenas* and *phoenix*

for vase filling next month, also ivy geraniums, and get in plenty of choice nasturtium seed. Begin using fertilizer on your hydrangeas, spiraeas, and all stock with well developed roots, and which is wanted for show. If you have no white lilac or *Hydrangea grandiflora* in your garden for your own cutting, order at least twenty-five of each at once so as to get them planted in April.

C. B. W.

**Rochester, N. Y.**

Cut flower trade is very dull at present, and if it was not for the several spring openings in the larger department stores, where plants and flowers are used quite liberally, the florist might as well give a vacation to one-half of his employees.

Prices are low and uncertain; the favorite plan of buying now is in job lots.

Plant sales are only fairly good lately; the stores are lavishly provided with large assortments in variety; the windows are attractive everybody must admit, but sales might be better.

Nurserymen have been busily engaged digging trees and packing orders for over two weeks. The early opening of the ground has always been looked upon as indicative of an increase in sales, and present appearances point that way. Some of our firms are greatly troubled over the unjust action of Canada prohibiting all shipments of nursery stock from the United States. The San Jose scale scare seems to affect all countries alike, and they make no discrimination as to localities; our nurserymen have a vital interest in keeping their stock clear of all such pests; they have taken every possible precaution, and to my knowledge there has not been a single instance yet in our locality where any nursery stock has been found to be infested.

Driving through our parks last week I noticed that a great many of the trees and shrubs have been provided with good sized labels, the lettering is distinct and

sharp so that it can plainly be read from quite a distance; both the botanical and English names are given. J. B. K.

TORONTO, ONT.—Fire damaged the stock and fixtures of J. H. Dunlop's place on King street to the extent of \$1,500 on March 5. Mr. Dunlop will continue the florist business and fill all orders without interruption.

**Special Easter Number**

THE issue of the American Florist for APRIL 2 will be the annual Easter or Spring Number, and will be sent to all the new names obtained for the 1898 Directory.

**New CARNATIONS.**

**WHITE CLOUD**—White.  
**GOLD NUGGET**—Yellow.  
**NEW YORK** (Ward)—Bright cerise pink.  
**MRS. JAMES DEAN** (Ward)—Clear silvery pink.  
**JOHN YOUNG** (Ward)—White.  
**BON TON** (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have *Cerise Queen* (Breitmeyer), *Argyle* (Stollery), *Jack Frost* (Swayne), *Empress* (Swayne), *Evelina* (Wittenstaetter), *Firefly* (Hancock), *Psyche* (Hill), *Painted Lady* (Hill), and *Mrs. S. A. Northway Simmons*. All good 1897 novelties and other standard varieties at reasonable prices.

**New Chrysanthemums.**

**MRS. C. H. PEIRCE**—Yellow.  
35c each, \$3.50 per doz., \$25.00 per 100.  
**SNOW QUEEN**—White.  
50c each, \$5.00 per doz., \$35.00 per 100.  
**MERRY CHRISTMAS**—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List.  
Ready January, 1898.

**F. DORNER & SONS CO.**  
LAFAYETTE, IND.

**ALBA SUPERBA**

The Gardenia Carnation.

Plants Now Ready \$10.00 per 100  
60.00 per 1000

**JOHN BURTON,**  
Chestnut Hill, PHILADELPHIA, PA.

**ORDERS PLEASE**

All the Leading Carnations Now Ready. Per 100  
*Geraniums* named our selection only, 2 1/2 in. .... \$2.00  
*Sylvia*, *Clara Bedouin*, 2 1/2 in. .... 2.00  
*Little Gem Feverfew*, 2 1/2 in. .... 2.00  
*Colens*, 20 best bedders, 2 1/2 in. .... 1.50  
*Lycopodium Denticulatum*, 2 1/2 in. .... 2.00  
*Frutescens* Multicolor, 2 1/2 in. .... 2.00  
*Aternanthera Aurea Nema* and *P. Major*, 2 1/2 in. .... 2.00  
**THE MORRIS FLORAL CO., Morris, Ill.**

**WEST ISLIP GREENHOUSES.**  
CARNATIONS. Rooted Cuttings

Scott, Porta, McGowan, \$1.00 per 100 \$8.00 per 1000.  
Daybreak, \$1.50 per 100. Mixed *Geraniums*, from this, strong plants \$15.00 per 1000. Mixed *Cinnams*, dry roots of the following sorts: *Alphonsa Rouvier*, *Mme. Crozy*, *Clara Henderson*, *Queen Charlotte*, *Burbank*, *John White*, etc., \$2.50 per 100. Cash with order.

**E. B. SUTTON, Jr., Babylon, L. I.**

**NEW CARNATION...**

The largest, bright rich crimson yet introduced. **Empress**

Send for price list of above.  
New and Standard Sorts....

**WM. SWAYNE, Box 226, Kennett Square, Pa.**

**POTTED ROSES**

We have 1000 *Baroness Rothschild* Roses in 6 and 8-inch pots which will be in fine shape for Easter.

Prices \$9 and \$12 per dozen.

Book your orders early to insure delivery.

**J. B. Deamud ILLINOIS CUT FLOWER CO.**  
51 AND 53 WABASH AVE., CHICAGO.

**40 Fine Palms Ready For Sale**

FOR \$5.00

12 *Latanias* 1-inch pots showing two character leaves  
10 *Kentias* 2-inch pots  
6 *Corypha Australis* 5-inch pots, strong  
6 *Areca lutescens* 5-inch pots, 3 in a pot  
6 *Areca lutescens* 3-inch pots, 4 in a pot

All fine clean stock. Packed tight by express.

**Critchell's**

110 E. 4TH STREET.

Cincinnati, Ohio

Rooted cuttings of *Umbra Verbaena*, *Sylvia Splendens*, *Sylvia*, and *red rooted*, \$1.00 per 100, \$8.00 per 1000.

*Calceol.*, *Golden Bells*, *Nelly*, *Grand* and others, 75c per 100.  
Extra strong, \$1.00 per 100.

Cash on order please.

A PHOTOGRAPH OF OUR UNNAMED WINTER BLOOMING SEEDLINGS

\$300

American Rose Co.'s

PRIZE

For best Seedling Carnation for Winter Blooming.

Prize Money

will be deposited with the American Carnation Society April 15, 1898 to be awarded by them at the

ANNUAL CONVENTION Philadelphia, February 1899.

Send for circular giving full particulars to

P. O. BOX 422, WASHINGTON, D. C.



\$300

COMPETITION

must be by purchasers of at least

ONE HUNDRED

of our Seedling Carnation Plants

BUT

such purchasers are entitled to use in such competition our seedling plants or seedling plants of

THEIR OWN

creation.

The owner of the WINNER agrees to SELL it to the

American Rose Co.

for the highest bona fide offer which would be accepted....

10,000 strong plants ready April 15th, 1898 in 3-inch pots. Price per 100, \$15.00. Sample plant mailed on receipt of twenty-five cents.

\$300

THE SEEDLINGS WE SELL YOU ARE FROM HAND-FERTILIZED SEED OF THE SAME KIND.

\$300

NATHAN SMITH & SON

Wholesale Florists

Specialties ADRIAN, MICH.

CHRYSANTHEMUMS CARNATIONS AND VIOLETS

CORRESPONDENCE SOLICITED

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

CHAS. CHADWICK,

Lock Box 11. GRAND RAPIDS, MICH.

If corresponding with an advertiser at any time, say "saw your ad. in the AMERICAN FLORIST."

Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

50,000 Flat-Grown GARNATIONS STRONG STOCK.

	per 100	per 1000
Daybreak	\$2.00	\$15.00
Scott	2.00	15.00
Rose Queen	2.00	15.00
Tidal Wave	1.50	12.00
Portia	1.50	12.00
Rob Roy (new)	10.00	
Jubilee	3.00	
Snow Queen	10.00	
Silver Spray	1.50	12.00
L. McGowan	1.50	12.00
Eldorado, Meteor	2.00	
Flora Hill	5.00	
Triumph, Armazindy	3.00	
Pluto, new, and Uncle Sam, new, both varieties	10.00	

Cash with order. HENRY A. NIEMEYER, Erie, Pa.

20,000 CHRYSANTHEMUMS.

2 1/2-Inch pots. Major Bonaffon. \$2.00 per 100 or \$15.00 per 1000; President Smith, Eda Pruss. \$1.50 per 100 or \$12.00 per 1000. Ceraniums the best mixed varieties for bedding. 3 1/2-inch pots, showing buds. \$2.50 per 100 or \$18.00 per 1000; 2 1/2-inch pots, \$2.00 per 100 or \$15.00 per 1000. Cash with order or satisfactory reference.

PAXTON GREENHOUSES, C. E. Taube, Prop. Harrisburg, Pa.

IS a much more substantial flower than Daybreak; color a shade or two darker and entirely rust proof. Can be seen at Vaughan, McKeller & Winter-son's every Wednesday and Saturday.

REDUCED PRICES

Very Fine Rooted

Carnation Cuttings

Taken from our "Prize" Stock.

MCGOWAN ALASKA ALBERTINI HELEN KELLER ARMAZINDY DAYBREAK

\$2.00 per 100; \$15.00 per 1000.

SOUTH PARK FLORAL CO., New Castle, Ind.

JUBILEE CARNATIONS, Rooted Cuttings

I have a fine stock of this peerless variety, also most of the leading standard sorts.

MARIE LOUISE rooted runners at special low rates. Write for prices. Will exchange for fruit trees.

W. W. COLES, - Kokomo, Ind.

Cleveland.

Business continues to amble along at pretty much the same gait that it has maintained since Lent began. Things are slightly slower of course than previous to the advent of Lent, but upon the whole there has been no very great reason to complain, as a good share of the stock offered is selling, although not at high prices. This is doing well enough for Lent, when the vast increase in the volume of supply is taken into consideration. Easter week may be said to be scarcely more than two weeks off now, and it is to be hoped that any serious slump may be avoided.

Easter stock of all kinds is advancing with wonderful rapidity under the influence of unusually bright weather.

The two members of the S. A. F. executive committee, Messrs. Graham and Cushman, arrived home the latter part of last week. They report a very pleasant time in Washington as well as a valuable meeting, of which the fruits will appear at Omaha in August. On the return trip a stop was made to visit Schenley Park, where they had the good fortune to find Mr. Falconer hard at work supervising the planting of one of the houses. It goes without saying that everything was found in magnificent condition; the palms and ferns being particularly noteworthy. A house devoted to economic plants gives promise of being a great feature very shortly, among other things being a fine collection of agaves and cacti from the Shaw Gardens at St. Louis. Mr. Smith, of Washington, also was represented by an extensive batch of various kinds of plants.

A special feature at Schenley Park is, of course, the great displays provided for various occasions throughout the year, one of the finest, of course, being that shown at Easter. This year's display promises to excel anything heretofore seen; there are hundreds of magnificent hydrangeas and cinerarias in fine shape and of every imaginable color variation; azaleas of all sizes and kinds; bulb stock without end apparently, as well as many other handsome things. One beautiful feature will be the genistas in large sizes. These have been grown without trimming and now hang in long, graceful plumes that by Easter will transform them into miracles of floral beauty. All in all the visit to the institution under the efficient management of Mr. Falconer was one that amply repaid one for the trip. A.

PRICE LIST of rooted cuttings of New Carnation

GENESEE

NOW READY.

1 dozen or up, prepaid by mail or express.....	\$ 1 35
25 or up (to 100) " " " .....	10 00 per 100
100 " purchaser paying charges.....	8 00 per 100
250 " " " " .....	7 00 per 100
500 " " " " .....	6 75 per 100
1,000 " " " " .....	65.00 per 1000

Descriptive illustrated and priced circular free.

DAN'L B. LONG, Sales Agent, Buffalo, N. Y.

Flora Hill CARNATION

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our Trade list is issued. If you have not received one send for it.

E. G. HILL & CO., = Richmond, Ind.

TRY A FEW OF THE NEW CARNATION CERISE QUEEN

\$2.00 per doz.....\$10.00 per hundred.....\$75.00 per 1000.

MAYOR PINGREE \$5.00 per 100.\* \$40.00 per 1000.

JOHN BREITMEYER & SONS, Mt. Clemens, Mich.

UP-TO-DATE CARNATIONS!

18 VARIETIES OF 1898... 15 VARIETIES OF 1897.

All the Best Standard Sorts. Yours if you order at once. Many are now in soil. Some are well established. All are finest of stock and ready for IMMEDIATE DELIVERY. Our prices are right. Send for catalogue...

GEO. MANCOCK & SON, - GRAND HAVEN, MICH

FLORA HILL

\$4 per 100; \$30 per 1000

All the new and old varieties equally low

H. F. LITTLEFIELD, WORCESTER, MASS.

Carnations Chrysanthemums

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

NEW CARNATION ARGYLE

A few left at the following price \$10.00 per 100, \$75.00 per 1000.....

STOLLERY BROS. ARCYLE PARK, - CHICAGO, ILL.

Experiences

... WITH ...

CARNATIONS

The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants.

I Guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.

ALBERT M. HERR, LANCASTER, PA.

THE BEST OF THE NEW PINK CARNATIONS

Mrs. Frances Joost.

A WINNER EVERYWHERE.

\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000 - Cash with order.

G. BESOLD, Mineola, L. I., N. Y.



# 5000 GARDENIA FLORIDA

(CAPE JASMINE.)

3-inch pots, 8-10 inches high, \$8 per 100; \$70 per 1000.  
**25,000 Canas**, dormant roots, in 20 best sorts, \$20 per 1000.  
**Latania Borbonica**, 4-inch pots, 1-2 choice leaves, 12-15 in., \$15 per 100.  
**Latania Borbonica**, 4-inch pots, 2-3 choice leaves, 15-18 in., \$20 per 100.  
**Phoenix Reclinata**, 4 inch pots, 12-15 in., \$15 per 100.  
**Phoenix Reclinata**, 4-inch pots, 15-18 in., \$25 per 100.  
**Oranges**, best sorts, grafted, 4-inch pots, 10-12 in., \$20 per 100; 5-inch pots, 18-20 in., \$30 per 100.

P. J. BERCKMANS, Augusta, Ga.

# DOUBLE PETUNIAS

out of 2½-inch Pots; good strain; strong plants ready for cutting, \$2.50 per 100. Cash with order.

ED. QUINN, - Springfield, Mo.

# 3000 GERANIUMS 3000

Best named, 2½-in., \$25 00 per 1000.

**250 Vinca Variegata**, field-grown, now in 4-inch pots, \$10.00 per 100  
**COLEUS**, rooted cuttings, 6.00 per 1000

GEO. W. GASKILL, 212 N. Tod Avenue, - WARREN, OHIO.

# MYRTLE For CEMETERY AND CARPET WORK.

I have the largest and best stock in the country.

Rooted Cuttings, mail paid 100, \$ 60; 1000, \$ 4.50  
 From 2½ and 3-in pots, 100, 6.00  
 Large field-grown clumps, 100, 7.00; 1000, 60.00  
 Delivered to any express from New York.  
 Cash with order

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# COLEUS Rooted Cuttings Well Rooted...

Scarlet Verschaffeltii, Golden Verschaffeltii, Fire King, Fire Brand, Tam O'Shanter, S. P. Gem, Alhambra, Golden Crown, Midnight, Salyator, John Good, Nigger, 15c per doz.; 75c per 100; \$5 per 1000; express paid.

S. T. DANLEY, Macomb, III.

**The Cottage Gardens**  
 QUEENS, L.I.  
 Specialties in CARNATIONS, CHRYSANTHEMUMS, CANNAS, GERANIUMS, DANLIAS.  
 SEND FOR OUR PRICE LIST

# PANSIES THE JENNINGS STRAIN. THEY ARE GRAND.

Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254, SOUTHPORT, CONN. Grower of the Finest Pansies.

# MARCH OFFER

Per 100  
 Alternanthera A. Nana, \$1.75; P. Major, \$2.00  
 Begonias, 5 var. and Verbenas, 2.50  
 Coleus and Centaurea Gymnocarpa, 2.00  
 Geraniums, 2½-in. pots, \$2.50; 3-in. pots, 3.75  
 Marguerite (Paris Daisy) 4-in. pots, 4.00  
 Pansy plants, 1000, \$9.00, 1.00  
 CASH WITH ORDER.

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# 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.  
**NO RUST OR MILDEW.**

**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**  
 We are the Largest Growers of Verbenas in the country.  
 Our plants cannot be surpassed.

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# VERBENAS.

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$20.00.  
**New Yellow Marguerite** finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

# Rooted Cuttings VERBENAS CARNATIONS And Other Stock

## DOUBLE HOLLYHOCKS

Four plants, one-year-old. Pansies, Verbenas, &c. Send for Price List.

S. W. PIKE, ST. CHARLES, ILL.

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Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6.00. Cash with order.

FRANK S. PAYNE, Barnard Crossing, N. Y.

# AZALEA INDICA

We have an immense stock of all the best varieties; well set with buds; large plants, 12 to 15-inch, \$6.00 per doz.; \$45 per 100.

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We grow over a million from the choicest seed of Bugnot, Cassier, Odier and Trimardeau; transplanted in cold frames; 60c per 100; \$4.00 per 1000.

# HARRISII LILIES

In bud, guaranteed right for Easter; 10c per bud.

# CINERARIAS

In bud and bloom, \$1.00 per doz.

# ROOTED CUTTINGS

Mammoth Verbenas.....	\$ .70	\$5.50
Double Petunia.....	1.00	
Heliotrope.....	.75	
Ageratum.....	.50	

Double Golden Dwarf Marguerite, \$1.00 per 100.

# PLANTS 2½-inch.

Double Geraniums.....	\$2.00	per 100
Vinca Variegata.....	2.00	per 100

# WHITTON & SONS,

Wholesale Florists,

City and Green Sts., - UTICA, N. Y.

# FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

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Correspondence solicited.

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IN BEST VARIETIES.

**ROSES**, from 3-inch pots.  
**CARNATIONS**, for fall delivery.  
**CHRYSANTHEMUMS.**  
**SMILAX.**  
**VIOLETS.**

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

# CLEMATIS

Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00

# H. P. Roses

Strong, 2 and 3 years own roots.....\$1.50 \$10.00

**RED JACKET GOOSEBERRY**, only large native red.....75 \$4.00

**DOWNING**, best for general crop, special prices.

**PAEONIES**, fine ass't of colors and kinds \$1.25 \$8.00

**SMILAX**, extra strong plants.....\$2.50

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# KLONDIKE

Cold Fields at Your Door.

**COLEUS**—All kinds, all grades and all prices. Verschaffeltii and Queeo, 75c per 100; \$6.00 per 1000; 2½-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 55c per 100; \$4.50 per 1000; 2½-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 100; \$1.50 per 100. Double Petunias, extra fine strain for flats, \$1.50 per 100; \$12.00 per 1000. Anthemis Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 80c per 100. Heliotrope, Multiflorus, Double Golden, 2½-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2½-inch pots, \$2.50 per 100; Mme. Sallerot, for flats, \$1.25 per 100; \$10.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.  
 The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.

# CARNATIONS AND COLEUS

## ROOTED CUTTINGS

THE 1898 INTRODUCTIONS

THE 1897 INTRODUCTIONS

**DAYBREAK** of special quality.  
**ROOTED COLEUS** in variety.  
 Good stock only. Price list free.

DAN'L B. LONG, Growers' Agent, BUFFALO.

# 5,000 SMILAX...

From flats, by mail, 50c per 100, \$4.00 per 1000  
 From 2-inch pots, \$2.25 per 100, \$13.00 per 1000  
 Geraniums from 2-inch pots, \$2.25 per 100; \$20.00 per 1000. Cash with the order. Send for samples. Fred Boerner, CAPE MAY CITY, N.J.

# Marie Louise

# Violet Runners

Good plants, healthy stock, \$5.00 per 1000.

A. WASHBURN & SON BLOOMINGTON, ILL.

# LETTUCE AND OTHER...

# VEGETABLE PLANTS

**LETTUCE**—Blk Boston, Boston Market, Tenn.; Ball, Grand Rapids and Rechner's Foreign. 15 cts. per 100; \$1.00 per 1000

**TOMATO, CABBAGE and CELERY**—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.

**CAULIFLOWER**, Snowball—35 cts per 100; \$2.50 per 1000; if by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md. Mention American Florist.

Baltimore.

A week of balmy spring weather has helped to depress prices, though on the whole prices and demand are remarkably good for Lent. Complaint is made that Philadelphia is unloading a good deal of stale flowers on the market at any price they will bring. This encourages the sidewalk vendors, and is just that much against the stores.

The last meeting of the Florists' Club was largely attended, being the annual election of officers.

Messrs. E. A. Seidewitz and N. F. Flitton were nominated for president, Mr. Seidewitz receiving thirty-four votes to Mr. Flitton's nineteen, was duly elected. For vice-president, Mr. C. M. Wagner received thirty-eight votes to Mr. P. B. Welsh's twenty. In the vote for secretary the number of ballots cast fell to nearly the same number as for president, Mr. Chas. F. Feast receiving thirty-four and Mr. F. Burger twenty. The vote for financial secretary was the closest and largest polled. Mr. W. P. Bindler received thirty-one, Mr. H. Ekas, thirty, Mr. J. J. Perry, four. The election of Mr. Wm. B. Sands as treasurer and Mr. J. L. Wagner as librarian were unanimous. All business being on motion dispensed with, the members adjourned to the French restaurant on Liberty street and partook of the sumptuous repast that the committee had provided.

After this formality was over, Mr. Sands—who was to have acted as toastmaster—being obliged by the lateness of the hour to take his train home, made a short speech introducing Mr. Seidewitz as the president and withdrew.

Mr. Seidewitz spoke of his determination to be an impartial executive "regarding neither friend nor foe," and compared different carnations, McGowan, Scott, Jubilee and others, to different classes of people. He then called on Mr. Vincent for a speech, but Mr. Vincent said he was no talker and could only tell of the meeting of the executive committee of the Society of American Florists, and the convention in Omaha in August, which he hoped many would attend. Owing to the fact that many members had to take cars for home by 12 o'clock or not at all, those remaining then dispersed.

Mr. Wm. Swayne, Kennett Square, Pa., had a cluster of carnation Empress on exhibition in the hall, with stems fully two and a half feet long. The blooms were three inches in diameter and filled (not crowded) with broad deeply laced petals of a rich, velvety, deep crimson. Add to this the very strong clove scent, and the admiration excited by the exhibit cannot be wondered at.

Mr. John Burton, Chestnut Hill, Pa., also had a jar each of Alaska and Flora Hill, which would be hard to improve on in white.

Messrs. Halliday Bros sent a jar of all the varieties they cultivate, all were extra fine. MACK.

SALT LAKE CITY, UTAH.—The second meeting of the Florists' and Gardeners' Association was held March 14. There was a good attendance and much interest was manifested in the proceedings.

**Peacock's** Prize Winning Dahlias

36 First Prizes out of 39 entries in 1896 and 1897

Send for 1898 catalogue to same address 200 before putting orders elsewhere

W. P. PEACOCK, - Atco, N. J.

# Two Great Sports

## CARNATION VICTOR

## CHRYSANTHEMUM PENNSYLVANIA

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth.  
Rooted cuttings now ready. \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15. \$5.00 per doz.; \$35.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

Mention this paper.

## Chrysanthemum Mrs. A. F. Wienold

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Bergmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2 1/2-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

CAL. VIOLETS. No disease. Strong runners. 50c per 100; \$4 per 1000. McDONALD & STEELE, Crawfordsville, Ind.

## Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the Whites. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

## "BOSS" Chrysanthemums

WM. H. CHAOWICK—the grandest white novelty of the season. THE YELLOW FELLOW—Winner of \$100 Stearns bicycle prize. MADELINE PRATT—"As pretty as her picture."

Distributed March 1st by leading firms and the grower..... Grove P. Rawson, Elmira, N. Y.



IMPORTERS

JAPANESE PLANTS, BULBS, ETC.

At lowest prices. Small orders filled from experimental garden Columbia Road, Dorchester, Mass. Wholesale catalogue, 188, free to the trade.

JAPANESE NURSERY,

Office: 272 Boylston St., - BOSTON, MASS.



Large Field-Grown Roots in all the Leading Varieties \$5.00 to \$7.00 per 100.

30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue of novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Dahlia Specialist, Box 382, Denver, Colo.

# Jardinieres, Pots AND Pedestals



ADAPTED TO

Florists' Use.

Artistic Shapes and Decorations.

Write us for Illustrations and Prices.....

BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.

Catalogues Received.

H. H. Berger & Co., New York, seeds and bulbs; Frederick W. Kelsey, New York, trees, shrubs and plants; Holton & Hunkel Co., Milwaukee, Wis., wire designs; Jac. Wezelebenburg, Sassenheim, Holland, bulbs; E. Calvat, Grenoble, France, plants; Lothrop & Higgins, East Bridgewater, Mass., dahlias; Yokohama, Nursery Co., Limited, Yokohama, Japan, trees, shrubs, plants, seeds and bulbs; H. F. House & Co., Hiram, O., seeds; John S. Kerr, Sherman, Texas, trees, shrubs and fruits; C. E. Allen, Brattleboro, Vt., seeds; C. J. Speelman & Sons, Sassenheim, Holland, bulbs. Haerens Brothers, Somergem, Belgium, plants; J. A. McDowell, City of Mexico, Mexico, plants; James M. Lamb, Fayetteville, N. C., trees, shrubs and plants; Ellis & Pollworth, Milwaukee, Wis., plants and supplies.

TORONTO, ONT.—The florists of this city at their last meeting made preparations for the annual chrysanthemum show to be held on November 9, 10, 11 and 12. The prize money has been raised to \$860.

ELIZABETH, N. J.—The Elizabeth Nursery Company has purchased several acres of land on Rahway avenue, on which they propose to build a range of large greenhouses at an early date.

NEW BRIGHTON, PA.—William George, florist, will build a new greenhouse at the corner of Fourth avenue and Ninth street and engage in business soon after the first of April.

TOLEDO, OHIO.—A greenhouse belonging to the Superior Floral Company was damaged by fire to the extent of \$25 on the morning of March 9.

N. Dames

**Vanderhorst & Dames...**  
BULB GROWERS

Lisse and Heemstede, Holland,

is on his round trip through the United States. To spare time, we beg to send all letters and communications up to May 15, care of

Knauth Nachod & Kuhne,  
13 William St., New York.

Give us the list of your wants and we will send you our lowest quotations for real good stuff.

**Down to War Prices...**

- Tuberose Pearl, 4 to 6 inches, per 1000... \$5.00
- Spiraea Japonica clumps, per 100... 3.00
- Iris Germanica, fine field roots, mixed, per 1000... 8.00
- Iris Kampferi, fine field roots, mixed, per 1000... 8.00

Send cash with orders.

**HULSEBOSCH BROS.**  
ENGLEWOOD, N. J.

# 100,000 CANNAS

Strong dormant roots in leading varieties; orders received until April 10th

TUBEROSES, Pearl and double Italian.....	\$3.00 per 100, \$25.00 per 1000
RICHARDIA ALBA MACULATA.....	\$7.50 per 100
DAHLIAS, strong whole roots in leading varieties, of Cactus, large flowered and Pompon.....	\$6.00 per 100
LILIUM AURATUM, 7 to 9 inches, \$4.00 per 100, 9 to 11 inches.....	\$6.00 per 100
LILIUM SPECIOSUM RUBRUM.....	\$5.00 per 100
LILIUM SPECIOSUM ALBUM.....	\$7.00 per 100
PEONY OFFICINALIS, best early-flowered red, strong roots.....	\$7.50 per 100
BEGONIA REX, in 20 fine varieties.....	\$4.00 per 100
GERANIUMS, large stock best bedding varieties.....	\$3.00 per 100, \$20.00 per 1000

Big stock of pot Roses, Palms and other greenhouse plants.  
Large supply of strong, dormant, nursery-grown Roses, 2-year roots, in H. P., Climbers and Moss. Large-flowered Clematis, Hydrangea Paniculata Grandiflora, etc.  
If you have wants in Fruit and Ornamental Trees, Shrubs, etc., we have 'em.

## THE STORRS & HARRISON CO., Painesville, Ohio.


BEST QUALITY **HOLLAND BULBS** LOWEST PRICES

# JAC. WEZELEBURG

SASSENHEIM, HOLLAND.

Address up to May 1 in care of KNAUTH, NACHOD & KUHN, 13 William St., NEW YORK.

## SPRING BULBS.



<b>LILIUM AURATUM.</b>	Per 100	Per 1000
7-9 inch.....	\$3.75	\$35.00
9-11 inch.....	5.00	45.00
<b>L. RUBRUM (Speciosum)</b>	Per 100	Per 1000
7-9 inch.....	4.75	40.00
9-11 inch.....	6.75	60.00
<b>LILIUM ALBUM (Speciosum)</b>	Per 100	Per 1000
7-9 inch.....	6.50	55.00
9-11 inch.....	7.50	65.00
<b>BEGONIAS TUBEROUS ROOTED...</b>		
Single, separate colors.....	3.50	30.00
Double, .....	9.00	

## TUBEROSES...

True Excelsior Pearl.  
"Hallock strain" First size. .... 1.00 7.50

**GLOXINIAS** ..... Per doz., 85c; per 100, \$5.00

**CALADIUMS.....**

Fancy leaved choice bulbs, per doz., \$1.75; per 100, \$12.00.

**CALADIUM ESCULENTUM**

Cured and sound bulbs with live center shoots. Doz. 100

5 to 7 inches in circumference. \$ 40 \$2 50

7 to 9 " " " 65 4 50

9 to 12 " " " 1 00 6 50

50c per 100 less on 7-9 inch and 9-12 inch sizes if shipped from New York.

**GLADIOLUS XXX Florists Mixture**  
Per 100 ... \$1.75 Per 1000 ... \$15.00

**VAUGHAN'S SEED STORE**

NEW YORK 14 Barclay St. CHICAGO 84-86 Randolph St.

# BULBS

For FLORISTS.,  
For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, HOLLAND.

## CANNAS

NEW AMERICAN  
Finest in the World  
Our Novelties for 1898

DUKE OF MARLBORO, darkest crimson.....	Per 100 \$30.00
DUCHESS OF MARLBORO, only pure pink.....	30.00
TOPAZ, only absolutely large pure yellow.....	50.00
LORRAINE, pink, edged white, fine.....	30.00
MAIDENS BLUSH, delicate flesh color.....	15.00
GOLDEN PEARL, yellow, nearly double.....	30.00
CUBA, finest and largest gilt edged.....	40.00
GLORIOSA, very dwarf, March delivery.....	12.50
PHILADELPHIA, glowing crimson.....	15.00
CHAMPION, largest, glowing scarlet.....	\$5.00 each
KLONDIKE, only large pure orange.....	\$2.50 "

Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

**OUR CANNAS IN FRANCE.**

To Messrs. A. Blanc & Co.,  
Your new canna of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Crimson, etc. Signed CII MOLIN,  
Lyon, France, Jan. 3, 1898

**ASPARAGUS SPRENGERI**  
Fine plants in 6-inch pots, ready for 8-inch, \$5 per 12.

**AMARYLLIS.....**  
Veltch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

**CALLAS**  
Spotted Leaf, \$3; Black, \$5; Yellow, \$80; all per 100. Golden, \$2 each.

**DAHLIAS**  
11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, GILT EDGE, \$15 per 100. Send for special list.

**A. BLANC & CO., Philadelphia, Pa.**

## Armstrong's Everblooming Tuberose

A NEW departure in Tuberose growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

For Prices and Particulars  
...Address...

**LUTHER ARMSTRONG,**  
3720 Olive St., ST. LOUIS MO.

**Sub-Watering.**

This method of watering should receive careful consideration from every florist. Readers of the AMERICAN FLORIST will remember that the method described by Prof. Arthur (except as modified by the Indiana Station) was described and figured on page 834, vol. xii., which was mainly an extract from the thirteenth report of the Wisconsin station, then recently issued. I have had four years' experience with this method of watering, and feel competent to give evidence. I have grown all kinds of vegetables commonly forced in greenhouses, as well as roses and carnations, and do not hesitate to recommend it as the very best system of watering.

That it is a simple method cannot be denied, but that it requires no skill or judgment I deny. Good common sense will be in just as great demand here as in surface watering. The tendency at first will be to give too much water. It takes considerable time for the water to rise through four to eight inches of soil, especially if left loose.

I have found that it is not necessary that the benches be built absolutely level. A slight sag here and there does not make a mud puddle. Prof. Greene's method has been used here for comparison, and while it is far ahead of surface watering, it does not give as satisfactory results as the brick method. The water is not uniformly distributed, and when a sufficient quantity of water to moisten the whole bed has been applied a large portion of the soil will be soaked and muddy, and will remain so for a considerable time, while other parts are dry.

By this method—as described by Prof. Greene—three rows of three-inch tile are used in a four-foot bench. Just how Prof. Taft is able to successfully water a four-foot bed with one row of tile is not clear to me. The original cost of the beds for this system of watering should not discourage growers from giving it a trial. The increased yield of a single season will more than offset this extra cost. The zinc will no doubt last as long as an ordinary greenhouse and the bricks are everlasting. The improvement to be looked for is the substitution for the bricks of some cheap water-conducting material that is lighter than brick. The weight of the soaked bricks is something enormous. A running foot of bench four feet wide will require thirty-six bricks, which will weigh from 160 to 175 pounds. This needs to be borne in mind when constructing benches for this work. An inch of gravel and three inches of compacted sand answers well but is heavier. Charcoal broken into pea-size pieces will also work well, but is more expensive than bricks. However, the present method is excellent and should be given a fair trial by every progressive florist.

FRED CRANEFIELD,

Wisconsin Experiment Station,

Mansfield, O.

The Berno Floral Co. intend building an additional rose house to cover 25x110. The house will be equipped with all the modern appliances and heated by steam. They will likewise overhaul their other houses, it being their intention to put the entire plant in first-class condition. Carnations will be grown on a larger scale than heretofore, the increased demand for these flowers necessitating the additional room.

Mr. Berno reports an unusually brisk trade in funeral work. HOMO.

# SCOTT'S ROSES!

## AMERICAN BEAUTY

Now ready to ship. Plants from 2½-inch pots, ..... \$8.00 per 100; \$50.00 per 1000.

**ULRICH BRUNNER.** Strong plants of hard wooded cuttings, from 2½-inch pots, \$4.00 per 100; \$35.00 per 1000. This is gilt edged stock, and has a reputation of its own. Last year we could have sold 10,000 plants after our stock was sold. Sample for 10 cents.

**BRIDE, BRIDESMAID, PERLE DES JARDINS, METEOR and CARNOT.** from 2½-in. pots. Write for prices....

**NEW DWARF CANNA GLORIOSA,** without exception the most useful and beautiful Canna yet introduced. Plants, from 3-in. pots, \$2.00 per doz.; \$12.50 per 100.

**CANNA FLAMINGO,** dormant roots, \$8.00 per 100.  
**CANNA PAUL MARQUANT,** dormant roots, \$2.00 per 100; \$15.00 per 1000.

**CANNA CHAS. HENDERSON,** dormant roots, \$2.00 per 100; \$15.00 per 1000.

— ORDER NOW —

### ROBT. SCOTT & SON,

19TH AND CATHERINE STS., - PHILADELPHIA, PA.

# Roses! Roses! Roses!

Extra fine selected stock of all the leading varieties.

Bride, Bridesmaid, Catherine Mermet, Madame Hoste, Mrs. Pierpont Morgan, Perle des Jardins, Meteor, at \$5.00 per 100. La France, Kaiserin Augusta Victoria, Mrs. W. C. Whitney, Souvenir de Wootton, Madame Caroline Testout and Pres. Carnot at \$5.50 per 100. Clara Watson and American Beauty at \$8.00 per 100. \* \* \* \* \* Write for special prices for large quantities.

**JOHN N. MAY, Summit, New Jersey.**

## ...ROOTED ROSES CUTTINGS

No scrub wood used. All stock thoroughly rooted and carefully packed when sent out. Send for samples...	Per 100		Per 1000	
	Per 100	Per 1000	From 2½-Inch Pots Per 100	Per 1000
AMERICAN BEAUTIES, Rooted Cuttings.....	\$2.50	\$22.00	—	—
BRIDES.....	1.50	12.50	—	—
BRIDESMAID.....	1.50	12.50	—	—
METEOR.....	1.50	12.50	—	—
KAISERIN.....	1.50	12.50	—	—
PERLE.....	1.50	12.50	—	—

Terms cash with order. Plants from 2½-inch pots ready May 1st.

**J. A. BUDLONG, - STATION X, CHICAGO, ILL.**

## ROSES OWN ROOTS, DORMANT, FIELD GROWN

IN COLD STORAGE IN CHICAGO.

No. 1. 2 to 4 feet, cut back to 2 feet  
Yellow Rambler (Aglata)  
Hybrid Perpetuals,  
Mosses, Hardy Climbers  
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These plants are very strong and well shaped. Prices on application. Address

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## FINE ROSE STOCK

In 2 and 3-inch Pots.

Write for prices of kinds you want.

12 Best Varieties of Carnations in 2-inch pots, ready to plant out. Write for prices. Send 50c for samples. Lancy Sunfax in 2-inch pots.

**GEO. A. KUHIL, Pekin, Ill.**

## 300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers. Moon Vines, \$2.50 per 100.

Send for prices

The National Plant Company, Dayton, Ohio.

## NEW FORCING ROSE MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2½-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

## ROSES...

PERLES.....	} Pots 100	} Pots 100
METEORS.....		
BRIDESMAID.....		
BRIDE.....		

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.



Los Angeles, Cal.

The different localities in southern California have been refreshed with showers during the past ten days. Reports from the northern and central parts of the state show that severe frosts this week have seriously injured, and in some places totally destroyed, this year's crop of apricots, peaches, cherries, prunes and pears.

All the world has read of the death of General W. S. Rosecrans, who for a number of years has made his home within a few miles of Los Angeles. All the florists had heavy orders for the funeral, one firm putting up twenty-one pieces.

In addition to large orders for the Rosecrans funeral, Capt. F. Edward Gray had a big wedding order to fill for Tucson, Arizona. He sent some nice stock out to the land of the cactus and jack-rabbit.

J. A. Summers, of the Central Park Floral Co., who was so severely injured, is recovering nicely and expects to get to the store before many days.

J. C. Harvey, of the Los Angeles Botanical Society, started this week for southern Mexico, where he has large coffee and rubber plantations.

J. J. Dean, of Moneta, is working up a nice trade in Redondo carnations by mail.

M. E. Walker, the university florist and bulb grower, has had too much "grip" for the past week.

California taxes fruit trees. The assessment rolls show 1,200,000 lemon trees now planted in the state.

A recent visit to Redondo, where more carnations are grown than at any other point on the coast, shows the principal growers there preparing for spring planting. The Redondo Beach Floral Co., J. G. Morley, manager, has ground ready for 75,000 plants and plenty of stock to plant it with.

Henry Feder is already at work planting on a little patch of about four acres. At the Wolfskill place, where George Watson grows as fine carnations as anybody, the ground space is limited, but the condition of the plants and surroundings shows the beneficial effect of thorough cultivation and good care. D. R. W.

New Haven, Conn.

Spring activity among local florists is blossoming in abundance just now. Thos. Pattison, who has lately completed a rose house and is marketing some of the choicest Bridesmaids hereabouts, will shortly erect a carnation house 20x65 feet on his grounds in West Haven. Smith Bradley, of Fair Haven, is also planning an extension, and E. J. Morse, of East Haven, is said to be about to do the same.

While other dealers are making extensions in a variety of fields, Wm. Jost, of East Haven, still confines himself to violets, and the degree of success which he has attained in cultivating the Farguhar seems to justify all his efforts. Mr. Jost has four houses, 10x120 feet each, given up to this variety alone, there being about 1,200 plants in each house. His weekly shipments to Boston and New York far exceed his sales in this vicinity. Mr. Jost shades his violets early in March, using turpentine and white lead in preference to white wash, applied so as to not exclude sunshine too completely, thereby obtaining added fragrance to the violets.

The first crops of the season arrived last week, and retail for \$2 per dozen. Brunners, too, are in good shape, though the season is yet young, and command the same price as Jacqs. Bridesmaids and Brides bring \$2, while bulbous stock,

being abundant, sells for 60 cents per dozen.

John X. Champion, accompanied by his wife, is absent on a two weeks' trip through the south, visiting Havana, Jacksonville, Savannah and other cities before they return. Mr. Champion expects to make many selections for his Easter trade while on the trip.

Henry A. Siebrecht, of Siebrecht & Son, New York, was in the city on business last week. J. A. P.

Grand Rapids, Mich.

Trade is still brisk, and very much unlike what was expected for the Lenten season.

Although all large functions have ceased, weddings, funerals and the steady demand for loose bunches, have kept flowers scarce. Business promises to continue good, but stock is getting scarce.

The outlook for Easter stock is fair; lilies are more or less diseased, and will be given a turn at the next club meeting. F. Postma and Mr. Blair have severed their connections with T. R. Renwick & Co.

Chas. Bowditch, late with F. A. Chapman, is now traveling salesman for Henry A. Dreer, of Philadelphia.

Wencil Cukierski, the city florist, has purchased a number of lots on the west side, on which to erect a greenhouse plant, should occasion require.

GEO. F. CRABB.

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# Kraft's Plant Tonic

For PLANTS, PALMS and FLOWERS

...A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale...

This is one of the greatest preparations for the use of Florists and Plant Growers ever compounded. It gives to the foliage of plants treated the bright, fresh color of healthy, growing vegetation. It destroys all insect life infecting the plant and eradicates scale.

Besides improving the color of the plant, it effects a general betterment of its condition, aiding nature in disseminating and retaining the sap and life of the plant. The Tonic makes the foliage of the plant soft and pliable, and a beautiful bright green.

For sale at

Price per bottle, 25 cents.

84 & 86 RANDOLPH STREET, CHICAGO.

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BOTTOM PRICES.

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Gardeners and Florists.

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INDISPENSABLE

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PURE BONE FLOUR. Ammonia 11.65 Bone Phosphate 9.61 PURE DRIED BLOOD. Send for prices and references. GEO. S. BARTLETT, CINCINNATI, O. SUCCESSOR TO Cin'ti Desiccating Co. 1255-1257 West Sixth Street.

NIKOTEEN IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING (INDOORS OR OUT) - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABCURA DIP CO. CHICAGO. Kill AND SAVE the BLOOMS the Bugs! QUICKLY DOES IT.

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Thos. **W. Weathered's Son....**  
 Horticultural Architect & Builder  
 And Manufacturer of Greenhouse Heating and Ventilating Apparatus

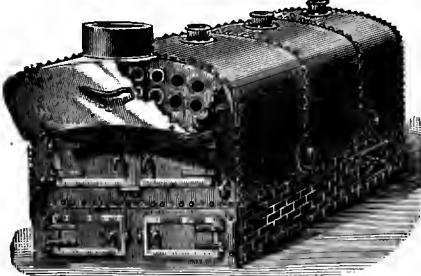
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The latest and most perfect Sectional Hot Water and Steam Boiler in the market. Improvements will astonish you. It has not only got the greatest amount of heating surface but is sectional in each and every part.....

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LOOK OUT FOR NEXT ISSUE AND SEE MY AD.

**KROESCHELL BROS. CO.**  
 IMPROVED  
**Greenhouse \* Boiler,**  
 29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

**Boilers** OF HIGH GRADE.  
 For GREENHOUSES.

See our Catalogue. . . . .

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**MYERS & CO.**  
 1518 & 1520 S. 9th St.  
 PHILADELPHIA.  
 Send for catalogue and price list.

**NEW & SECOND-HAND MATERIAL,**  
 purchased from Sheriff, Receiver, and Assignee, sales at less than one-half prices. Pipe and Fittings, Hose, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe, Glass Sash, and thousands of other articles, for sale by  
**CHICAGO HOUSE WRECKING CO.**  
 Largest Mail Order Depot for New and Second-Hand Material in the World.  
**W. 35TH & IRON STS., CHICAGO.**  
 Write for our free illustrated catalogues.

**Wheeler-Stenzel Co.**

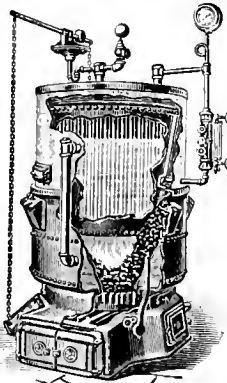
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**Greenhouse Glass**

Make your contracts for next season now. We can deliver to any part of the country and Save You Money .....

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—THE—  
**GORTON SIDE FEED Boiler**



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

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**CYPRESS**  
 IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
 UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
 Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
 Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS Lumber Co.,**  
 Neponset, BOSTON, MASS.



**EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS**  
 WRITE FOR ILLUSTRATED CATALOGUE  
**QUAKER CITY MACHINE WORKS**  
 RICHMOND, IND.



**LOUISIANA Cypress Green House Material.**  
**RED CEDAR**

Write for Estimates.

**Our Special Easter Number April 2 SEND ADS. AT ONCE OR IT WILL BE TOO LATE.**

**Uncle Sam and the Washington Florists.**

The following House bill, introduced by Mr. Richardson, which was favorably considered and referred to the committee on the District of Columbia we learn will probably soon become operative:

H. R. 6360

**A BILL**

*To regulate the disposal of the products of Government greenhouses and grounds in the District of Columbia*

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, that from and after the passage of this Act it shall be unlawful for any person in charge of any establishment in the District of Columbia supported in whole or in part by the Government of the United States, or for any of his subordinates, to appropriate to their own use, loan, distribute gratuitously, or sell or offer for sale in the District of Columbia any product of the greenhouses or grounds under their charge:

"Provided, That nothing in this Act shall be construed as prohibiting the President of the United States from using, at his pleasure, the products of the White House conservatories and grounds:

"And provided further, That nothing in this Act shall prevent the Secretary of Agriculture from distributing any new or rare plants not in general cultivation.

"SEC. 2. That violators of this Act or any of its provisions shall be subject to dismissal from the Government service."

Mr. Freeman, prominent among the Washington florists, originally agitated the question which resulted in the foregoing bill.

The *Washington Post* reflecting this opinion, and in sympathy with the florists says editorially:

"After much prayerful inquiry and self-communion, we are convinced that the Washington florists have right and reason on their side. It is borne in upon us that the free distribution of flowers by the government is, in a small way, what the free distribution of seeds is in a large way—a humbug, a blunder. As regards the seeds, we have already expressed our opinion. It remains only to say that the distribution of flowers, as at present conducted, is not only an injustice to the general public in the improper employment of persons whose salaries the general public pays, but a mischievous favoritism out of which no good can come to anybody."

It has been argued that if this law is passed that the products of the greenhouses and nurseries of the Industrial school will be deprived of a market and claimed that the proceeds of sales were an aid in supporting this institution but expert investigation has shown that such traffic has never even paid the running expenses for this plant, and a more beneficial use of the flowers and plants from this establishment could be found in their distribution among the public schools, hospitals, etc., which would not injuriously disturb patronage of the legitimate sources of these supplies. —BURT EDDY.

**SEND FOR FLORISTS PRICE LIST AND CATALOGUE**      **FREE UPON APPLICATION**



*Gurney*

TRADE MARK

**HOT WATER HEATERS AND STEAM BOILERS**

THE STANDARD OF EXCELLENCE FOR THEIR RESPECTIVE REQUIREMENTS.

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... MANUFACTURERS OF

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OUR FLOWER POTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Poro Pot." They are more Porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

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**Standard Flower Pots...**

OUR POTS ARE OF THE BEST QUALITY.

*We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.*

\* Write us before placing your orders elsewhere. ....

**CAMBRIDGE TILE MFG. CO., Covington, Ky.**



**STANDARD FLOWER POTS      FERN PANS and AZALEA POTS...**

OLD RELIABLE MAKE OF **Elverson, Sherwood & Barker.**

Write for price list. Address

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MANUFACTURERS OF  
**Flower Pots.**

Before buying write for prices.  
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**CHICAGO, ILL.**

Mention American Florist.

**THOSE RED POTS**

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS.  
BULB PANS AND AZALEA POTS.

**DETROIT FLOWER POT M'FY,**  
**HARRY BALSLEY,      DETROIT, MICH.,**  
Rep.      490 HOWARD ST.

**Standard FLOWER Pots**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

**W. H. ERNEST,**

Station M, N. E.      WASHINGTON, D. C.

**Standard Pots      Made by**

Good Railroad Facilities For shipping. **KELLER BROS.**  
Special Attention Given to Mail Orders, and Special Sizes Made to Order.      **NORRISTOWN, PA.**

Price Lists Furnished on Application.

**FLOWER POTS**  
ALL KINDS

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List and SAMPLES FREE.

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We have 50,000 Fern Pots that we will close out at \$7.00 per 1000, 500 at same rate. Send for price list for other sizes. Address

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FORT EDWARD, N. Y.



**Brick or Wooden Greenhouse Walls.**

Answering "C. B. S." Delaware, O.: Lumber, labor and brick vary so much in cost that the difference in expense between brick and wooden walls can not be given with any degree of accuracy. A solid brick wall is not to be recommended for your climate, as the great extremes of temperature inside and outside cause most kinds of ordinary brick masonry to rapidly go to pieces. A hollow brick wall is probably the best and most durable of all, but is more expensive. A well made wooden wall will answer every purpose except that it is not so durable as the hollow brick wall.

Would not advise the use of any glass smaller than 12x12 inches, and it should be double strength. In a general way the larger the glass the lighter the house, consequently the better the house. For cut flower growing 14 and 16-inch glass is commonly used, but for general greenhouse stock when economy is an object 12-inch glass will answer very well. X.

**Concrete Greenhouse Walls.**

Answering "Subscriber," Milton, Ont.: A solid concrete wall would be open to the same objections as a solid brick one, as mentioned in answer to "C. B. S." Delaware, O., in this issue. If the best Portland cement, sharp coarse sand and clean gravel or crushed stone is used, in proper proportions, with great care in mixing and laying up, it is probable that the solid concrete wall will stand but it will not make so warm a house as the wooden wall, if the latter is well made, double, with building paper between the boards. Do not use the common tarred paper. The tar destroys the fiber of the paper in many cases and it soon hardens and cracks, becoming useless. X.

RIVERTON, N. J.—William Parry, of the firm of Parry Brothers, nurserymen, died last week of an acute attack of Bright's disease. Mr. Parry was 50 years of age, and was a son of the late Judge Parry.

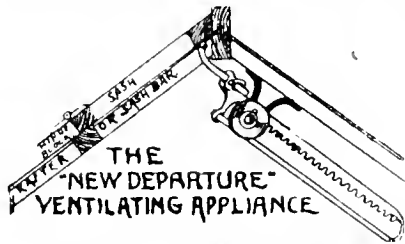


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OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

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You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to

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**GREEN-HOUSE CONSTRUCTION.**

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

**Clear Cypress Building Material**

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars or Estimates.

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LOCKLAND, OHIO.

**H.M. HOOKER COMPANY.**  
COR. CLINTON and RANDOLPH STS. CHICAGO.

**GREENHOUSE GLASS**

**OUR SPECIALTY.**

**LARGE STOCK PROMPT SHIPMENT.**

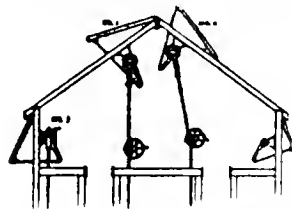
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**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability

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**GREENHOUSE MATERIAL**

Cal. Red Cedar and Louisiana Cypress.

BEST GRADES. PERFECT WORKMANSHIP.

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It lowers the vitality of your stock, but write for particulars of my tempering Apparatus.

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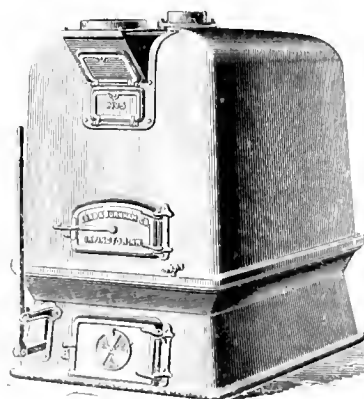
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ALBERT M. HERR, Lancaster, Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

### An Easter Perspective.

With the advent of every Easter there is a perennial revival of business all along the line. The grower, dealer and retailer each shares an active interest, and each desires to reap the natural benefits involved. The florist's Easter is material rather than spiritual, and while he is "first" at church he rarely attends an Easter service. At the mere sight of an early worshiper he goes off on a tangent—to attend to more business.

A certain amount of business is assured from the start, with net results dependent on quality and quantity of salable stock in hand. At no other holiday season are fresh flowers and blossoming plants so generally salable, with the plants averaging by far the better quality.

Cut flowers suffer from over-handling and incident neglect. Take the bloom off the fine bunch of grapes and half its ornateness is gone. Leaving roses and similar stock exposed and lying around in promiscuous heaps certainly doesn't improve quality; and by the time they reach the customer there isn't hardly enough vitality to survive Easter day. It seems that no amount of preaching can entirely shut out "stored products," but if these floral mummies were only ossified remains instead of rotteness and decay! Sic transit gloria mundi. And while there is more friction to Easter trade than desirable, still it would be next to impossible to be wholly free from it for obvious reasons. At Easter it is no sinicure to deal with the general public. Some peo-

ple make purchases who seldom buy flowers at any other time, and these small sales involve an endless amount of "small" talk, inconsequent unless it be to impress the dealer with the questionable importance of their undesirable trade. Churches and church people simply "want the earth"—at your expense. 'Tis no wonder florists are skeptical of christian principles after dealing with a church committee!

The unusual "ethereal mildness" for March brings stocks along even more forward than last year, when Easter was eight days later.

It will be strange if roses are not more or less offcrop, for not being able to pre-empt the lively gait of the weather which seems to present a zeal not according to knowledge or previous experience; bulbous stock shoots up like Jack's historic bean stalk. However, resurrection is the vital spirit at Easter. There will be no shortage of azaleas, but there is considerable uncertainty as to lilies—the large percentage of diseased stock will appreciably reduce surplus. Good violets will be in extra demand, as there will be less of the prime quality, except with growers who understand the delicate subject. My own violet range affords a 100,000 weekly, and I hope to preserve phenomenal quality. It's lots of fun to grow violets, but some growers make "funny business" of it, and that spoils the "fun."

More blooming plants will be called for this Easter than ever before. I predict a record breaker in this respect. Present to customers good honest ornate plants, minus so much millinery. I consider ribbon bedecked plants abnormal and a very doubtful equation of good taste. I am reminded of a past fad of tying piano legs with hugh bows of staring ribbon, which was so ridiculed and ridiculous that the square piano became out of date and is replaced by the plain upright. The best advertisement for the florist is prime stock—plants and cut flowers. Fads and styles, for the most part, do not cut much of a figure with plants or cut flowers.

One admires some of the dainty conceits in filling violet orders, and the dainty flower itself is so adaptable to the art and skill of refined taste.

The rush of Easter work crowds every day's calendar, and before the advent of Easter morning until the going down of the sun 'tis a wise florist who knows which end he stands on—and even his artificial support is shaky, unduly stimulated. Certainly the florist's exhaustive nervous strain should represent value received for recuperation.

The plant trade is one branch of the

business and cut flowers another. Try to handle them separately; don't mix the two together at the same time. Putting up a box of cut flowers and selecting a plant for a customer "all to wonst" frequently gets a card in the wrong box, and you well know the consequences are not favorable for future business. Now, it too often happens that the latest customer gets your best stock of cut flowers from very persistency. Always give booked orders the preference. Reserve stock already sold to preserve regular customers. Keep a tabulated statement of daily sales booked forward. So many roses, so many carnations, and compare the aggregate with stock on hand or prospective.

You cannot fill an order satisfactorily at the eleventh hour with stock not in supply. Take care of the minutiae and details. Don't curtail this part of your work. As a rule the average florist is not any too systematic. Like his business, he is inclined to do at the moment whatever presses him most—it may be his temper.

Provided the weather is reasonably satisfactory Easter Saturday, the florist is assured a smiling and happy Easter morn, and his buoyant spirit stays—in a measure—his empty stomach. Happily a regular dinner follows later on—the first for the entire week, perhaps. Would-be florists, ponder the vicissitudes of the florist business.

May Easter, '98, pan out O. K. As a florist, I have great faith in "pans." Blooming pans are a florist's Klondike—at Easter. GROVE P. RAWSON.

### Consigning Cut Flowers for the Holidays.

As Easter draws near it strikes me it is a good time to stir up the growers. Not all, but many of them require a little stirring up. In the first place do not pickle your stock; send it to market as fast as it is in condition to cut. There is always a shortage of stock for a few days previous to the holiday week, with a big demand; many growers will hold back their stock until holiday prices go into effect, thus losing a sure sale, and the early part of the week sending in a lot of old, soft, pickled stock that can not be shipped and has to be sold at a sacrifice to the fakir, and so depreciate quoted prices.

The fourth, third and second days before the holiday proper is when the very best stock is wanted for the long distance shipments. The fourth day to Montana, Utah, North and South Dakota, etc.; the third day to Louisiana, West Virginia, Colorado, etc.; the second day to Illinois and adjoining states; and to get to these

points in good condition it must be stock of the very best quality, as it is all to be sold for use on the holiday. Many growers will send the worst first, and old, bad stock shipped to far off points is sure to result in a kick—and usually a big one—and it is the merchant that has to stand the kick and square the deal, also in many cases lose a good customer on account of disappointing him just when he is most in need of the goods and depends on his broker to furnish them.

Of course an old timer like myself, who has grown tough with many kicks on both sides, can stand it, but how about the young and tender boys who are still young in the business? It is a little rough on them to take the kick which in all justice should be given to the misguided grower who pickles his stock. Another thing he often does which is all wrong is

they will harden up and be as brittle as glass, and break as easy; and as a result most of the open flowers will be damaged or spoiled altogether. Your merchant can harden them up after receiving them.

I have always found the best results from wilted stock that has never had a drink; they should be packed with great care, with soft paper between the flowers, and far enough from the end of box so they do not get bruised. The stems should be firmly pinned down with a cleat with soft paper under it, then pressed just hard enough to hold in place, but use care not to press so tight that it will break the stems. If near enough to market it is safest to bring them in by hand, packed in bunches of 50 to 100 flowers, covered with soft paper.

Cut as long stems as you can; this applies to all flowers; short stemmed flowers are never much good, and do not sell to

make the bunches look as attractive as possible, and be generous in your count and avoid "ringers,"

The day before the holiday is the big city day. The holiday itself is worse than a Sunday, and seldom amounts to much, if anything. By following the above advice you will earn the thanks of your merchant, the blessings of his customers, and the shekels for yourself.

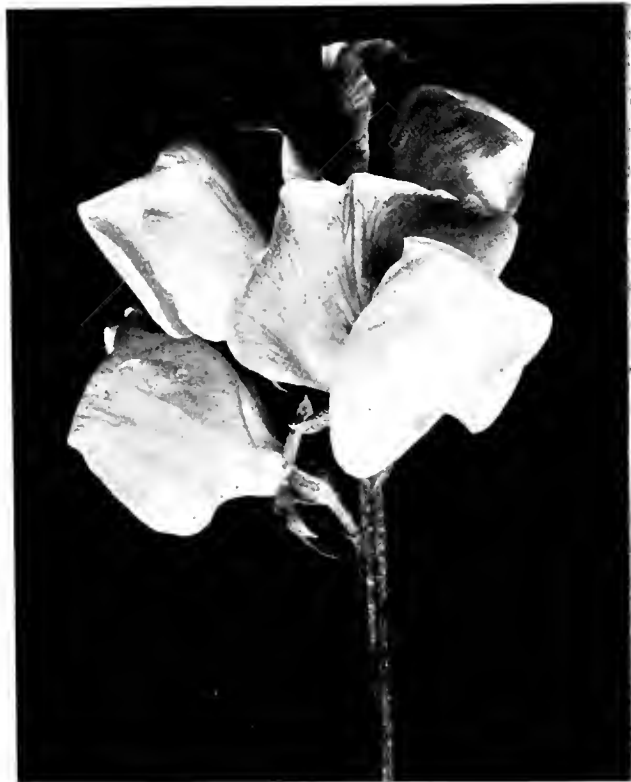
FLINT KENNICOTT.

#### Flower Seed Growing in America.

American seed growing has developed wonderfully during the past twenty-five years, until now, in spite of the European advantage in experience and in cheap labor, we are producing vegetable seeds which compare favorably both in quality and price with any from abroad. But we have paid little attention to growing



NEW SWEET PEA STELLA MORSE



NEW SWEET PEA PINK CUPID.

the holding back of his flowers until the last day, or the holiday itself, then sending in huge quantities, causing a glut in the market and, of course, a big slump in prices, whereas, if he would send his stock as it is ready he would avoid a glut and find a steady demand at good prices. Still another thing wrong, especially with lilies, is to hold them back to make sure of getting them in for the holidays, and at the last moment rush them into a hot house up to a 100° or more and force the very life out of them, the result being consignments of soft, watery stuff that is poor when it reaches the market and worthless when received by the customer, especially when shipped to any distance. Harris and other lilies of the same ilk should be grown cool, so they will have some substance to them, then cut a few hours before packing and allowed to wilt a little; this will make the petals pliable and they are less apt to break in transit, if you put them in water in a cool place

advantage. In packing roses and carnations, etc., you would think some growers had been trying to see how much hay or moss they could get in a box, and had jumped on it or pounded it down with a brick. Care in packing pays; a few broken heads and bruised flowers at holiday prices would pay for enough knock-down boxes to pack hundreds of flowers in; and where you do pack loose use care and cleat down all long stemmed stock, and pack far enough from end to keep roses from getting bruised, using wax or soft paper between each layer of flowers. Do not over crowd your boxes, and grade your stock; it will pay you, and your merchant does not have the time

especially during holidays—to do it for you. Often a mixed lot that would sell on sight if graded, gets set on one side until there is time to pick it over. Stock should be graded by the growers, never putting any seconds with selects, or thirds with seconds. In flowers that are unchined

flower seeds, the great bulk of those used in this country being imported.

There is, however, an exception in the case of sweet peas, American grown seed of this flower being abundant and cheap, and generally considered the best in quality. The honor for the improvement of the sweet pea has been given to Henry Eckford, of England, and to such an extent that many seem to think that not only were all of our finer sorts originated by him, but that we must depend solely upon him for any further improvement.

I would not speak lightly of, or underestimate Mr. Eckford's work. He has done more to create and develop the modern improved forms of this beautiful flower than any other man; but, while giving him due credit, we ought not to ignore or undervalue the studies and labors of such men as Hutchins, Morse and other American lovers and growers of sweet peas. A collection made up wholly of Eckford's varieties would lack

some of the very best kinds in cultivation. He has produced nothing so early and free flowering as the Extra Early Blanche Ferry, nothing of its color so beautiful as Stella Morse. America is the best red striped. Cupid, with all the splendid possibilities of its type promised in Pink Cupid, is an American not an Eckford variety. Blanche Burpee, his best white, is at least equaled by The Bride, and Brilliant is a better red than his Mars. Not only this, but it is a fact that in many cases, after American growers have worked for years to produce and perfect some stock, Eckford has sent out some new variety essentially like it, and, though the American stock was usually the purest and best fixed, and often better in other qualities, it has been unselfishly dropped, rather than add to the confusion of names, and Eckford alone has been given credit for work which was as well done by the American.

So much for the past. As to the future I know that one American is now growing stock of a variety which is as distinct a departure in color as Cupid was in form, being a true blue, a color hitherto unknown in this flower. It is hinted that in the opening year of the twentieth century an American grower will enrich our gardens with an entirely distinct class of half dwarf or bush sweet peas, superior in both beauty and usefulness to either the tall or dwarf sorts.

It has been said that our American sorts are not the result of horticultural skill, but chance sports, the outcome of the large areas planted in this country and the consequent immense number of individual plants produced. But no one who has had an opportunity to know the careful study and earnest work of some of our American growers will deny that their work is well done and worthy of praise. While it perhaps does not illustrate this point, the history of two American sorts may be of interest. Some forty years ago a woman in Northern New York noticed and saved the seed of a particularly bright flowered plant of the old Painted Lady. She planted them in her garden and each succeeding year saved and planted seed of what she thought were the best plants. She did not raise many, some years not more than a dozen plants, and never more than could be grown in three square yards. She was the wife of a quarryman, and her garden was always over limestone ledges, where the soil, though fertile was very thin, often not over a foot in depth, and gradually her plants became more compact and sturdy, until after some ten or twelve years she ceased to "bush" them, simply letting them support themselves. After she had raised them in this way for some twenty-five years a seedsman noticed their beauty, obtained about 100 seeds and from them has come the Blanche Ferry. This poor woman was not a scientist, her little garden and cottage were not at all an ideal trial ground and seed laboratory—but no scientist has suggested a better plan for the development and fixing of the qualities which make the Blanche Ferry the most practically useful variety we have than that which her love for the beautiful and her conditions of life lead to her carrying out so faithfully and patiently. The Extra Early Blanche Ferry was not the result of the selections of the earliest flowers, but it was developed on the theory that the time (from the sowing of the seed) of a plant coming into flower was quite as largely affected by conditions of growth as by constitutional tendency, but that the period in the development of the plant when it first



A TALL RAMBLER ROSE—DECORATED.  
EASTER PLANTS.

showed bloom was more a matter of constitutional tendency than of growth conditions. Accordingly in breeding for early flowering, plants which produced flowers from the lowest nodes, rather than those which first showed flower, were selected, and the results show the correctness of the theory. It seems to me that what Americans have done in the development of this flower suggests possibilities with others, and that we ought to look forward to the production of our own flower seeds of all kinds.

WILL W. TRACY.

#### Dahlia Notes.

If you are growing dahlias on an extensive scale you are now busily occupied in potting, hardening off and all the necessary details for preparing the cuttings for the ground. If, however, their cultivation is only a side issue, the clumps of roots may now be awaiting your pleasure in their place of winter storage. It is time to be forwarding them for early trade. A cold frame or a mere bedding out of the roots in a warm, sunny situation with a covering of light earth, litter or horse manure will do the work. Perhaps you will find them already starting freely when you take them out. You will be very certain to do so if their place of

storage has been quite warm. In this case you can safely divide them at once before bedding out, making as many divisions as there are starting buds. If the crown of a root shows two or three buds run the knife lengthwise so as to divide the root into an equal number of pieces. If the buds are still dormant when taken out of storage, ten days or a couple of weeks' exposure in a warm starting bed will set the buds into a free growth, and then the roots may be divided as described above.

After division the roots may be bedded out in the open ground, proper precaution being taken against frost at night and cold stormy weather. Exposure during all suitable weather will produce a strong, stocky growth, and at planting time you should have a stock of thrifty plants two or three inches high, backed by a considerable amount of tuber which can be safely sent to almost any required distance. In case the growth should become too rampant before the plants can be disposed of, cut back the shoots, and the buds already formed at the base of the stalk will start into immediate growth. It requires but a short time for plants grown in this way to become established in their permanent quarters and to start into rapid thrifty growth.

H. F. BURT.



A RHODODENDRON BEFORE DECORATING  
EASTER PLANTS.

#### Further Notes on Sub-Watering.

When the philosophy of sub-watering is once stated it seems simple enough. Evidently all that is directly required is to introduce the supply of water intended for the plant into the soil from beneath, and let it ascend by capillary movement to supply the feeding roots.

In arranging to carry out this method in practice there are two or three conditions of great collateral importance, which must receive due weight, or a full measure of success is out of the question. Most cultural results can be attained by various procedures, so long as the principle at stake is not violated, and sub-watering is no exception. The writer has used two methods for supplying water beneath the soil, one of which was discarded as deficient and the other remains and gives satisfaction. Other experimenters have used other methods, partly with and partly without good results.

The conditions, which seem to me prerequisites to success, are (1) the ready distribution of water over the whole bottom of the bench; (2) a free circulation of

air through the bottom layers, and (3) the employment of material that will remain porous and efficient. The use of a water-tight bottom I do not consider essential, but I believe the careful, economical and thrifty grower will come as near to water-tight benches as he can secure.

The permeable sub-layer of non-compressible material permits water to distribute itself evenly throughout the whole bench almost as soon as it is applied; and the flow of the water does not clog up the passage ways, for there is no fine or dissolvable material present. This layer of inert substance, which makes it possible quickly to spread an even sheet of water over the bottom of the bed, should be thick enough so that no liquid water can come in contact with the soil. The water should wet the sub-soil layer, be taken up by it and passed on to the soil above as hygroscopic water. The soil thus gets its moisture slowly, and never contains standing water that can compact or sour it.

Such a sub-soil layer is well formed from soft bricks with their lower edges

removed as passageways for the running water. All water for the plant must thus pass upward through four inches of porous brick before reaching the soil. But other material can also be used. Cinders and coarse gravel, from which all finer parts have been sifted, can form an inch or two on the bottom, with as much more of the same sort but finer above, and then the soil. With even the best of such material it is an advantage to have long metal troughs, with their sides notched, inverted on the bottom and extending from the entrance pipe across the benches. These are put in place first, and the gravel or cinders added afterward. They need be only about an inch high.

With brick, gravel, cinders, broken stone, or any similar distributing layer for the water; a most ample movement of air is also provided for. Much of the time, in fact, the spaces between the fragments of the sub-soil are filled, not with water but with air, and at no time are they entirely filled with water, if the watering is properly done. Moreover, the inlet tubes on the front of the bench and the overflow tubes at the rear permit something of a circulation of air through the sub-stratum at all times.

Whether the bottom of the bed shall be formed of zinc, galvanized iron, cement, or some other more or less perfectly impervious material can be left to individual preference. But a perfectly level, water-tight bottom will distribute the water the evenest and give the cultivator the best control over the bench.

I have been very explicit about the character and structure of the sub-soil layer for sub-watering because it has seemed to me that some of those who have written in contemplation of the establishment of a trial bench or house were in danger of missing the most valuable feature of the method. Everyone knows that if the water level under a garden should stand in contact with the loam, it would be very detrimental. We are trying to establish artificially a water table that never comes in contact with the loam of the bench, and that contains no fermentable or decomposing material. By this means the soil is never soaked with liquid water, but takes all its moisture by capillarity.

A point on which I had not given thought at the time my paper was read before the Carnation Society, was so forcibly brought forward then that I have been looking into the matter carefully since. The point is in reference to the possibility of successfully applying liquid fertilizers to plants in connection with sub-watering. My present view is that any fertilizer, whether liquid manure, ammonia, nitrates, phosphates or potash may be mixed with the stream of water so long as it does not contain solid matter to clog up the distributing sub-layer. Nitrogen fertilizers especially could well be applied in this manner, and the upward movement of the water through the soil would undoubtedly carry the fertilizing ingredients with it. The soil of the bench should be made reasonably rich at the outset, especially with phosphates, and then additional fertilizers for growth, particularly manure water, can be added in connection with sub-watering.

J. C. ARCHER.

TISCORVA, H. L.—Dr. S. A. Richmond has engaged the services of J. N. Lawrence and will engage in the florist business on North Main street. Three new greenhouses are now being built.

**Bellerophon's Experience with Carnations.**

Would you advise a young man of healthy growth, and fairly seasoned morals, to engage in the florist business? I have a natural hankering for posies, and would have considered myself especially created for the business, had I not failed at it once. I was young then, and fell among teachers who evidently considered that adverse experience was a wholesome lesson for beginners.

Perhaps, if I relate my experience, you may be better able to give me the advice asked. I thought that carnations would be the most profitable to grow, as the freight on them per flower would be less than on chrysanthemums. I visited the autumn flower show, and hung around among the growers endeavoring to pick out a dealer that would not sell me at the same time he sold his stock. The nearest approach to a Sunday school countenance I could find belonged to a Mr. Cox, to whom I applied. I confided to him my ignorance, and asked if carnations were easy to grow.

"Oh! yes," he replied, "the stock I'll send you can be grown as easy as falling off a log. All stock in the market is not easily grown. It is apt to run to short stems, which are not salable."

"Well," I replied, "there are some exhibited by Borner, they have long stems."

"Yes, that is so," said Mr. Cox, "but you can't get the soil he uses; he gets it from the Louisiana cane-brakes, where fishing rods have grown in it so long that the soil has got in the habit of sending up long shoots, and thus acts upon the carnations. You don't want to use that soil, it is full of fish-hooks and besides he has bought up all the land and controls it."

"How is your stock different from what other dealers send out?" I asked.

"Well, that is a trade secret, but I'll tell you," he answered. "What others send out, are cuttings, and in order to get as many as they can they chop them up too fine, and this weakens them. What I will send you will be rooted pips, they never miss fire, and are winners."

I could not resist that benign countenance and bought at \$5 per hundred, which he said was cheap for rooted pips. He gave me a bushel of instructions, not to let the dew rest upon the foliage, and to be sure to dehorn them, at the proper time, also that it was the best to grow them on benches. That suited me because I had lately built an addition to my cottage for a laundry, and had quite a number of wash-tub benches to spare; but I had some trouble in retaining the soil. The rooted pips came, and in time seemed to grow well. I attended the florists' club's meetings and listened to the discussions on growing the carnation. I was particularly struck with the statements regarding the frequent drenchings with manure water. I felt inclined to doubt Mr. Cox's theory of the longstems to Mr. Borner's plants, and finally came to the conclusion that the longstems came from the flowers trying to reach up and get away from the smell of the manure. I asked Mr. Box about it, and he smiled. It was a different smile from Mr. Cox's, which was a sort of a give-me-an-order smile, while Mr. Box had an open grave smile, a sort of a never-come-up-again one, that completely buried my theory, when he replied: "You must stretch the stems, it takes Samson three hours every morning to go over our benches and stretch our crop. Samson is long legged and long armed and therefore is well adapted to the work, and

that is the secret of his success." When I tried that, and complained afterwards that the stems broke off at the base, Mr. Box advised dropping melted glue into the plant.

At last the flower buds came, and to my joy I found that my system of culture had caused a very prolific growth. I had noticed that all the varieties exhibited had but one flower to a stem. Mine had nearly a dozen. Here was wealth staring me in the face. Mr. Cox had said something about dehorning or disbudding, I've forgotten which, but I can't see how one can get flowers, if one takes the buds off, so I let them remain. When they opened up, they opened all over. They bloomed at the top of the calyx and down the side. I had never seen that before, surely not at the exhibitions, where only

the newest and best were shown, so I was sure I had something new. I wasn't going to let the commission men get all the profit. I was going to reach near the consumer, and having something extremely choice; I wanted to select a florist whose exquisite taste would appreciate a good thing when he saw it. I made up quite a box of my choicest flowers, and called on Mr. Phillipine Souswirth, under Peck's Amphitheatre, I told him to prepare his eyes for a feast; that Mrs. Bradt and Argyle were not in it, and that if he paid me enough, he could have control of the whole crop. He didn't seem at all elated or excited, but remained calm and collected, coldly saying "open 'em up." I did so. "Oh! rot" he exclaimed. "No" said I, "they are Wm. Scotts, Mr. Cox sold them to me for such." I was



A RHODODENDRON—DECORATED.

EASTER PLANTS.

astonished at his ignorance. I noticed a peculiar expression of disdain and pity stealing over his face, and was just going to speak when Marc Anthony who was standing near, came up and with one glance at the flowers, took me by the arm and leading me to a corner said: "Now here, my friend, you are a member of our horticultural society, and as such have its reputation to maintain, just take my advice and carry those culls out of the county and bury them." I asked him if outside the city limits would 'nt do. He shook his head sorrowfully and answered emphatically "No." BELLEROPHON.

toward extravagant expenditure in park construction; details are elaborate; costly buildings are erected often which few people use; bridges are sometimes carried across depressions without reason, in fact depressions have, in cases, been created to serve as an excuse for the span; costly walls have often been built spoiling natural effects, when the purpose could have been the better served by plantations. Expensive aggregations of stone are often laid up into so-called rock work, the interstices being filled with plants generally looking misplaced and unhappy, entailing great labor in their care, out of

the spring until the last anemone has succumbed to the freezing breath of winter, what a succession of beautiful forms greet the eye from month to month.

Roads and walks serve no purpose but that of utility. Their care is an expensive burden, therefore they should never be laid out where not absolutely necessary; excellence of construction makes easy the subsequent care.

Park buildings should be plain in design, of good construction and materials, without elaborateness of finish either inside or outside; common brick, ivy covered, will in most cases meet the requirements with the least expenditure for maintenance.

Narrow strips of grass bordering driveways may be somewhat more cheaply maintained by planting them with shrubs of low growth, in a solid mass. This method has been adopted for several years past by the Brookline, Mass., Park Department on its driveways, and the effect is very good. The plants used are *Rosa lucida*, *Berberis Thunbergii*, *Viburnums*, *Cornels*, *Rhamnus*, etc. The variety of bark coloring makes the winter effect very pleasing, nor is the effect at any time monotonous, so varied are the changes from colored bark to budding leaves and bloom, and from bloom and fruit to autumn colored leafage.

The general lack of adequate funds for maintenance work in parks is a matter of serious thought for park managers. Money and time spent in construction is nullified if subsequent care can not be given to roads, walks or plantations.

The difference between success and failure lies sometimes in the neglect of little things, whether the cause of neglect is beyond the control of the park manager is scarcely considered by a generalizing public.

J. A. PETTIGREW



A POORLY SHAPED AZALEA BEFORE DECORATING,  
EASTER PLANTS.

#### Park Notes.

In the development of parks thoughtful consideration should be given to the question of future maintenance. Additions to improved sections, from year to year, requiring increasing appropriations, are apt to be forgotten or ignored by those entrusted with the responsibility of making provision for the maintenance of parks, the result being that the character of maintenance falls below the standard required to give satisfaction to the public. La h new path or extension of a drive, and each new plantation adds to the cost of care. It behooves, then, the park manager to keep this fact prominently before him, and to eliminate from his plans all expensive embellishments, all unnecessary paths or roads or other features entailing large expense for subsequent care. The tendency of the day is

all proportion to the benefits derived. Large ranges of glass are maintained for growing tender plants for bedding; this is an expensive leech to satisfy and makes large drafts on the maintenance account.

Simplicity of design in park construction is the most pleasing to the eye, and simplicity in design carries with it economical maintenance. Wide stretches of grass and masses of trees and shrubs are among the most important elements in park scenery. In combination they produce our finest landscape effects and offer attractions varying with each season.

Natural groupings of native or hardy plants are more effective than ephemeral floral displays of exotic bedding plants, while the labor and care of maintenance is very much less. Hardy plants, too, have the additional merit of interest and length of season. From the pushing through the snow of the snowdrop in

#### American Raised Roses.

The question is frequently put to me why are there not more American seedling roses of merit raised. The reply to this may be given from several standpoints, two or three of the most important reasons being as follows:

The first is, that in a general way the process from the fertilizing of the flower till the plants bloom takes too long for our ideas of getting the desired results; for proof of this we have only to turn to the carnation and chrysanthemum; here it takes only a few months, six to nine at most, to determine what our efforts have produced, and as a result we have plenty of sterling varieties of both these flowers continually being offered. But with the rose it is quite different as it takes three or four times as long to get any indication of what the results are likely to be, and then if out of several hundred seedlings there should happen to be one or two that are promising on first blooming, it takes a much longer time to work up sufficient stock to give a fair trial to test the many desirable qualities such as color, size, free blooming, healthy, vigorous constitution, distinctiveness and several other qualities necessary to make it worth putting on the market, and then when the raiser has satisfied himself on all these points it takes a still longer time to work up sufficient stock to enable him to offer it for sale. This, of course, is presuming that the first blooms hold their characteristics good continuously, which often happens to be the reverse, then a double disappointment is the result. This long waiting and often final failure to obtain the desired multum in parvo deters many from trying again after their first attempt. On this score it may not



be out of place to mention the fact that many seedling roses do not show their full character the first time blooming; often the most promising at the first are the most disappointing later on, and others with less attractiveness on first blooming turn out much better with further acquaintance. Thus there is always a great amount of uncertainty attached to it which deters many from taking up this branch of our business that otherwise would and could do so with great advantage to horticulture.

The next factor in this case is that so few of our rosarians in this country feel they can afford the time necessary to pursue this subject with that minute detail and study necessary to make it a success. This is particularly true of the commercial florist generally. No one, I think, will dispute the fact that this class of men have all they want to do to manage their business successfully and pay their way, having no time for indulging in anything that does not promise quick returns. But this does not apply to many amateurs who could if they would take up the raising of seedling roses and find a great amount of pleasure in the occupation. I do not mean by this that anyone with just enough knowledge of horticulture to know what a rose is could do so, but those who have made a study of flowers for their own pleasure, and who often become expert judges of the different qualities necessary in any flower, could select the parents having the best developed qualities which, when blended, would produce the best and most distinct forms desired; and no country to-day offers the inducement that ours does for anything that is really an improvement in roses. The field is a broad one and those having the time and means to devote to this subject need have no fear of over-production or of not finding in our republic an appreciative people willing to endorse a really good thing, even though it be a queen.

Summit, N. J.

JOHN N. MAY.

#### Greenhouse Pests, San Jose Scale and Legislation versus Insects.

[Read by Professor John B. Smith before the New York Florists' Club.]

[CONCLUDED.]

These are peculiar in several respects and particularly their mode of multiplication. Their appearance I will not undertake to describe, but if a single large individual be observed for a few days in succession, it will be noted that a colony of small specimens, daily increasing in size and number, forms round her and, as these attain full size in a few days they move off a little distance and in turn become centers of new colonies. If the watch be continuous and close, it may be observed that every few hours the mother of the colony gives birth to a living young and all her descendants are apt to be like herself, viviparous, parthenogenetic females. Some of them become winged, but that is not necessary to enable them to begin reproduction. Under greenhouse conditions no males are produced as a rule, and multiplication goes on with great rapidity. It is against such insects that the florist is most frequently called to battle, and besides the methods already mentioned, it may be in place to say that single plants may be often completely cleaned by the use of bisulphide of carbon. Bisulphide of carbon is a clear liquid like water which volatilizes rapidly, giving off an extremely foul odor which is poisonous to insects when confined in it. A dram is sufficient

to poison one cubic foot of closed space, so as to kill plant lice without harming plants in one hour. In a closet constructed for the purpose, a number of plants might be placed at one time and completely cleaned, whenever such cleaning was desirable, as before sending to a customer. As the vapor is heavier than air and sinks, the bisulphide should be evaporated in a shallow dish secured in some way near the top of the closet. The objection to this material is its inflammability, but so long as this peculiarity is kept in mind it can be used with entire safety.

A somewhat similar process has of late been the subject of experiment in cleaning entire houses of insects by the use of hydrocyanic acid gas. This is secured by the action of dilute sulphuric acid on

tical use of this gas to say much of its possibilities. I know that it has been used in some large houses; but I do not know the details. It is an exceedingly dangerous thing in careless hands, yet it may develop into a valuable method when we become better acquainted with its range and its possibilities.

Among the most troublesome greenhouse pests are scales; soft and armored. Soft scales are usually of considerable size; of the texture their name implies and brown in color. The young are smaller, much flatter and paler; usually quiescent, but capable of motion. In some species the young are produced alive, in some eggs are deposited under the female scales. Whichever is the case the florist must study the species until he knows when the young larvæ are being produced.



A POORLY SHAPED AZALEA—DECORATED.

#### EASTER PLANTS.

cyanide of potassium, and it is exceedingly poisonous to animal life of all kinds. The proportions are:

Fused cyanide of potassium,	
98 per cent. pure,	1 oz. weight.
Sulphuric acid,	1 oz. measure.
Water,	3 oz. measure.

Use a glazed earthenware vessel and put in first the necessary water, then add the acid; and when all is prepared drop in the cyanide in small lumps. The formation of gas begins at once and the amounts above given will thoroughly fill 100 cubic feet of space. Plant lice succumb in a few minutes, scales in from one-half to one hour—plants very soon thereafter. I do not know enough of the prac-

Then he should apply his washes promptly and thoroughly and at short intervals, for the larvæ scales are easily killed, and once out of the way the plants will remain clean. Soap washes are best in this case, although tobacco will do it frequently used. The main point to be observed is the time when the young appear and prompt application as soon thereafter as possible.

The armored scales differ from the soft scales or lecaniums in that the scale is separate from the insect itself which lies free beneath it. The armored scales have no power of motion when they are once fixed to the plant and their chance to travel is confined to a day or two just after they are born or hatched as the case



A CLUSTER OF CARNOT ROSES, SPOT VIOLETS

may be. Treatment is much as already advised and is also effective in proportion to the promptness and thoroughness with which the application is made. No use to apply weak washes to mature scales.

Now it has been suggested that I should say something about the San Jose scale and about the attempts to legislate it out of existence. I am afraid that almost too much has been already said on the subject—enough at any rate to induce Germany to forbid the entrance of our fruit and living plants into her markets. Just how far this will be enforced, it is impossible to say at present, but perhaps far enough to make the unwisdom of the "scare" that has been caused, thoroughly apparent. That this insect is a destructive one if left to itself, is beyond question, and that we have not yet found the best method of dealing with it may also be admitted. I am firmly convinced, however, that legislation is not that best method, for laws do not enforce themselves, and if the energy displayed in securing legislation were devoted to experiments in the orchard, the result might be different. We know the life history of the insect now, thoroughly; we know that we can kill it if we are persistent, and as compared with some plant diseases it is almost harmless. In the very worst infested district in New Jersey the fire blight killed more trees last year than the scale has done in the ten years that it has been with us. In one of the best peach orchards in New Jersey the scale has been present ever since it was put out. None but careful horticultural treatment was given until the present winter and of more than 1,000 trees, not one has been in the least harmed by the scale. Plant disease cut off 10% of the orchard last year, and 20% of some varieties. Why not legislate against that?

Legislation has a place undoubtedly in our battle with insect foes, but it is rather to give us a weapon than to act itself. There are always some men who are behind the times or who are congenitally unable to comprehend that any one has rights that they are bound to respect. Such men occur among the farmers as well as elsewhere, and in some cases they maintain a veritable nuisance on their grounds in the form of insect infested plants from which adjoining lands become infested; such men should be compelled to look after their property to the extent of saving their neighbors, and legislation can help us to that point and no further.



AN AZALEA TIED DOWN.  
EASTER PLANTS.

Of course, inspection of nurseries is a good thing in so far as it informs the nurseryman of the condition of his own affairs and he can make it, if he chooses, the basis of a guarantee to purchasers that his stock is clean. This will be of some tangible benefit to the purchaser if he is careful to deal with responsible firms, but as it is now, a certificate is a protection to a dishonest dealer since it gives him something to hide behind should his stock

prove, later, to be either diseased or infested by insects.

It seems almost as if there was an epidemic of a new disease which may be called "certificatititis," sweeping through the country, and its most prominent symptom is a craving for a written formula which is expected to replace the necessity for personal care and examination.

It is admitted in the very latest expression from Mr. Alwood, who is one of the chief promoters of legislation, that a certificate may be dishonestly affixed to stock or that an inspection may fail to discover infestation if it is slight. As a matter of fact, certificated stock has been received in New Jersey from three states this past winter, infested by the scale.

In such cases certificates are a positive source of danger, since the purchasers are apt to rely upon them too implicitly and to assume that they are a guarantee which obviates the necessity for personal care and inspection. Whether florists will ever suffer from this pernicious scale is a question. The insect infests almost everything. Its normal food plants are perhaps the tree forms of the rosaceae. But vines and shrubs, as roses, blackberry, raspberry and the like, are also infested, and roses particularly, are sources of danger.



ENTRANCE TO WABAN CONSERVATORIES OF E. M. WOOD, NATICK, MASS.

LOOKOUT MOUNTAIN PARK.—Plans for a national park on the battlefield at Lookout mountain are well under way.

## Rambler Roses.

It would seem as if all climbing roses of the future are to be called Ramblers, owing, probably, to the success of the name given the really beautiful climber sent out by the Turners of England and given the very appropriate and euphonious name, the Crimson Rambler. This variety was introduced from Japan into England over thirty years ago and remained in oblivion until seen by the Turners, nurserymen of Slough, who recognized at once its good qualities and sent it out into the world, where it will ever remain a living example of their genius and enterprise.

in pots show something of the form of each, in fact flatter them very much except in the case of the Crimson, which is not a good picture. How men who pretend to be honest can make such representations is past our comprehension.

The yellow rose *Aglaiia* is a pale lemon yellow with about one-third the number of petals and not more than half as many flowers to a cluster as the Rambler. No doubt it is a pretty climbing rose, but then it is not the same as the Crimson Rambler, only yellow. The pink and white varieties are much inferior to the yellow, the flowers being considerably smaller and very single. K.

north we cannot apply it. There has been but little frigidly lying around loose the past winter, everything is forward. The boys are holding back the Easter crops; the hyacinths, tulips and narcissi are blooming in their winter resting places and a general previousness among the flowers is as tantalizing as lateness when one is not ready to use them. With the florist it is just that time, "between hay and grass," when trade is dull and before the Easter activity which will stir anew the commercial impulses of the business.

Now is the time when one meets the kind of florist—and there are quite a few of them—who has foresworn ever



THALIA, THE WHITE RAMBLER ROSE.

The few plants set out the past two years have done exceptionally well in all parts of the country, and the sales in the immediate future should be enormous, as it will certainly be universally planted. As a pot plant for Easter sales it is incomparable, its hundreds of blossoms all open together and seeming to improve for at least two and even three weeks, make it especially valuable. Nothing has been said yet either by tongue or pen to do this rose justice; it must be seen to be appreciated.

But of the other—the yellow, the white and the pink—each here being heralded as the successor to the crimson, in fact pictures representing them of the same size and form of flower as the other, are being sent out. The following are photos of plants

## A Drummer's Twaddle.

We have just emerged from the Sunny Southland, which more than ever the past mild and dry winter has merited its balmy title. Scarcely a chill breath has blown across this region to blast its roses and camellias in full bloom in the gardens and parks at Christmas. The January and February months invited planting of outdoor crops usually postponed until a month later. Roses in their plentitude sold from the beds in basketfuls instead of by count, about on the basis of spinach and kale, "so much for a quarter," so that the southern florist's business, which never compares with our own, especially languished.

"Snow bound and ice locked" is a favorite expression of ours, but on arrival

planting another bulb; "they cost more than their product sells for," he wants to sell out "lock, stock and barrel;" every business in the world to him looks rosier than his own; his, the only one with its periods of depression and dissatisfaction; you can't divert him; the Maine disaster, Cuban independence, the prospect of war, all fall upon stony ground and elicit but a stony stare. We have met him these many years; annually with a lugubriousness of expression which would be amusing were we not all sympathetic does he announce his getting out of the business, but with the spring revival of trade, when he begins to get round shouldered carrying his money at Eastertide, all is changed, and later when we get around in the summer, up is going another green-



AGLAIA, THE YELLOW RAMBLER ROSE.



THE CRIMSON RAMBLER ROSE.

house, improved heating or ventilating apparatus and other evidences of his continued ambition and interest in his business, and life is again worth living.

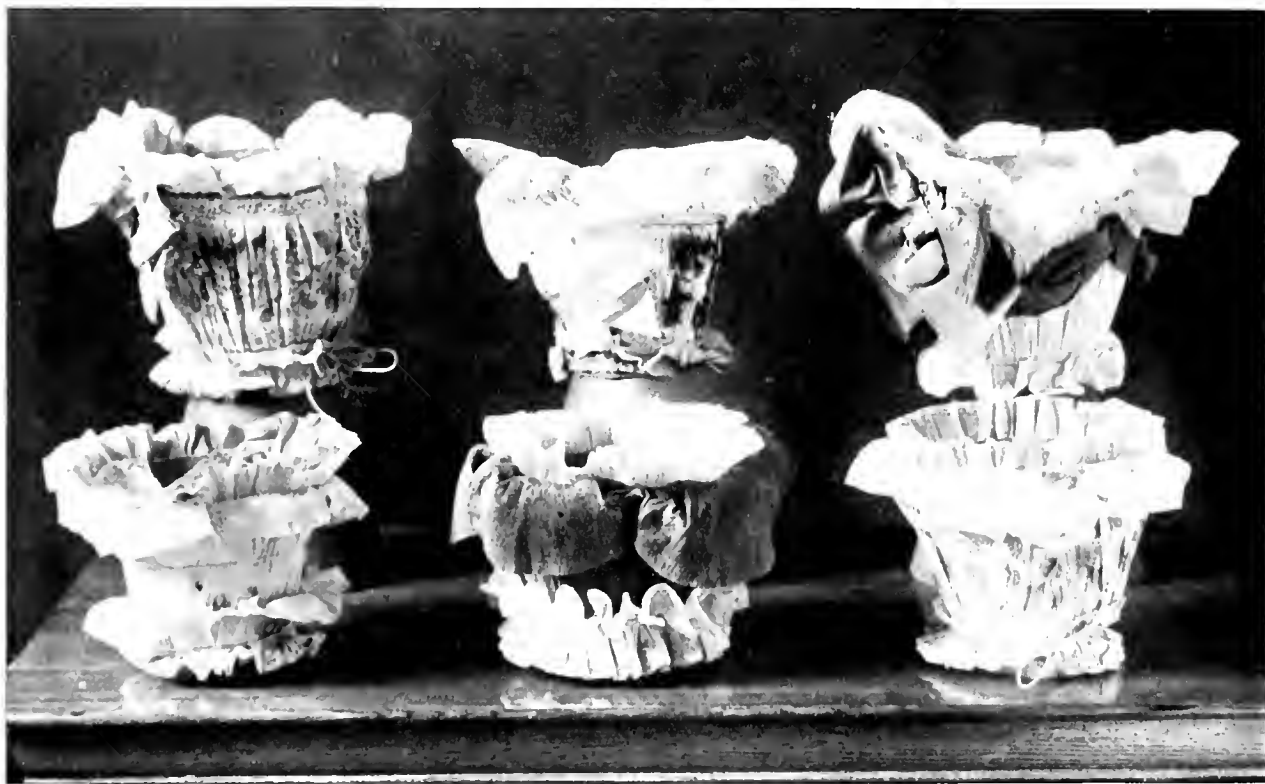
Happily we also meet with the other fellow, and right glad we are that he is in the majority, he who keeps peeled for the business fray and philosophically takes

#### Crepe Paper Decorations.

The use of crepe paper in decorating pot plants has become quite general, although there are still many florists and other persons interested in the business who are opposed to its use, they seeming to think that it gives too much of an artificial appearance, similar to the now al-

of ribbon of good width are very effective, but of course add considerably to the expense.

We use waterproof building paper about the thickness of light cardboard as a foundation; this is cut to fit any sized pot, coming from half to an inch above the edge, so that in watering the paper is not



CREPE PAPER POT COVERS.

his doses of the bitter and the sweet; is enterprising and creates business. There are other days, St. Patrick's for instance, and in advance he grows some shamrocks in pots, drums up the Hibernian societies, and patriotism for "theould sod" does the rest, right green here were the breasts of the crowds on parade this holiday, bedecked with the shamrock green spotted with St. Patrick's tears. Here is one demand, but we have not the time now to pick winners before they are ripe, but perhaps you can see suggestiveness in the drummer's talk when he tries to "jolly" you.

So far as we have gone among the eastern cities this spring, we have never before noticed more attractive window decorations, and it would be invidious to particularize, for generally this feature of display among the floral establishments is ahead of former seasons. All are putting the best foot forward in beautifying their window fronts to attract admiration and trade. There is an abundance of stock ready for this purpose, with nothing promising to be short except Labor's Hairs, many of which have bloomed before the season, and from 20% to 40% have been thrown out on account of "the disease." Japan long-flowered have shown but trifling signs of this blight, but a small proportion of these plants have grown quite short, this bly on the whole has done well and will be more largely used again.

We look for a good Easter market and better doing among the florists after it, and as for the drummer, why he always feels well and jolly. LUDY

most obsolete white-fringed paper for the bouquet. Others do not care to go to the trouble, and say it interferes too much at a busy time, while still another objection urged by some is that people will not pay the difference.

To our mind, and after an experience of five years, we are firm believers in the efficiency of the crepe paper cover as an adjunct and helper to the sale of pot plants. With scarcely any experience the average person can improve the looks of a blooming or foliage plant and change a badly shaped specimen, giving it a symmetrical or greatly improved appearance. The bare stem of a rhododendron or tall growing azalea is much improved by having a bow of ribbon to break the vacant space from pot to flowers, and a loosely arranged crepe paper cover on the pot makes a much better foundation to the large head of bloom.

Color effects innumerable are possible, as almost any shade of crepe paper desired can be obtained, and this season some very pretty flower figured patterns containing pansies, violets, dogwood and other subjects have been placed on the market.

Paper the same color as the flower is always safe, and in the case of violets, hyacinths, pansies, daffodils, lilies of the valley, and other low growing plants it is probably the best to use, although a bow of ribbon or crepe paper of another color can be added with good effect.

Silver or gold cord is used to bind the paper, narrow ribbons also answer, but are more expensive. On large plants bows

injured. The waterproof cover is held together with two small McGill fasteners, or pins may be used. The outside then gets a touch of mucilage, about an inch from the top, and the paper is fitted to it and bound on with the silver or gilt cord. When making, it is best to have an empty pot in the cover and to have this placed on top of a 6 or 8-inch pot, bringing it up to about the right height to work conveniently. If kept in a dry place and not crushed together they can be made as far ahead as is necessary to get a stock on hand for a holiday season, and will keep from one year to another if protected from the light, which soon bleaches out the color. K.

#### Hardy Herbaceous Perennials.

To those of us who grow hardy herbaceous perennials, the exceptionally early opening of spring has brought work which is ordinarily deferred until a month later. The new growth of aquilegias, phloxes, poppies and many others, warns us that the time has arrived for their transplanting and division where necessary.

Judging from the testimony of florists in this city and elsewhere, it seems that the demand for hardy plants is steadily increasing—particularly for the more showy and stronger growing ones—and the time is coming, I believe, when the public will appreciate many of the choicer and more delicate ones.

At the present time the call in this locality is for delphiniums, coreopsis, phlox,

herbaceous peonies and the early flowering Dutch bulbs. Comparatively few people are acquainted with the glory of the many hardy lilies, the exquisite beauty of the aquilegias, both in flower and foliage; the gorgeous poppies of the oriental types, or the more quiet beauty of the Iceland poppies, with their everlasting profusion of white, yellow and orange bloom, the varied forms of the iris and the multiplicity of campanulas, foxgloves, sunflowers, asters, gaillardias, together with the host of more chaste and less assertive blossoms, which can be grown as easily as coleus or geraniums.

It would seem that the florists have persistently avoided this class of plants, for what reason I can not guess, unless it be for the fear that once planted they would last forever and hence orders would cease. This would hardly be the case, as many of the tender annuals, or the perennials, which we use as annuals, though so common, have an intrinsic beauty and a continuous blooming habit which will continue to make them attractive indefinitely. Nor is it true that any plantation of perennials will last forever, for the best of them will need frequent transplanting and renewal. The use of hardy perennials is not advocated for the purpose of supplanting the tenderer plants, for that would be absurd, but because we want them for variety and relief and for their own good qualities and adaptability for certain uses.

There is probably more art required in the using of perennials than in the construction of a bed of alternanthera, still they are difficult to spoil, for they have a character and individuality about them that asserts itself in almost any situation. Yet there are places and places. On grounds of any size or pretension where there is room for a shrub or a tree, there is room and a suitable situation for at least a few hardy herbaceous plants. There is always some spot by the house; some line to be emphasized; something to be screened or cut off; some tall group to be clothed or brought down to the grass line, where the taller species may be appropriately used. Or there is a warm slope toward the spring sun; some rocky ledge or stony bank; some low spot where the spongy sod oozes to the tread the summer long; some natural or artificial water of greater or less extent; providing places for many a gem that "Comes before the swallow dares;" places for the brilliant natives of our moist meadows; for the beautiful alpins, and for the noble grasses and aquatics. To plant them effectively will require some study; it is true; some consultations with nature and with common sense—both safe teachers—the former to be easily reached and the latter found occasionally. It is wonderful how much the frame has to do with the picture, in fact becomes a part of the picture. Those who have seen groups of foxgloves and other plants of strong growth planted in the edges of woods, as Mr. Falconer planted them at Schenley Park last year, or who have seen the goldenrods and asters fringing some country road half hiding an old stone wall draped with clematis and shaded with crimson fruited barberries, will understand what is meant by effective planting. While it is undoubtedly true that most of our hardy plants are worth growing for themselves alone, yet there is a beauty above and beyond the individual which the gardener must consider—the beauty of combination of form and color and which should guide him in the selection of plants for a given place or purpose.

Well, what I started out to say is this: The question is frequently asked of me (and this will answer two recent correspondents), "When shall I begin to work up a collection of hardy herbaceous plants?" And I answer, now. It makes no difference what time of year the question is asked, the answer is always the same—begin now. For most plants

many are better sown in the spring than later, and the rest may be sown as soon as mature seed of the present season's growth can be obtained. There are a few species that would become unmanageable if sown in early spring, but the majority will make far more satisfactory plants for next year if sown now.

JOHN F. COWELL.



LILAC DECORATED WITH CREPE PAPER AND RIBBON.

which are propagated by division early spring is the best time. At this season of the year the members of the plants are full of good impulses, and a little piece that would wither and die if taken off later in the spring or at the approach of winter, will now start off as though nothing had happened and make a good sturdy plant for another season or in the case of some species, for the present summer.

If they are to be propagated from seed,

#### The Confidence Man.

In a certain town where the "confidence man" has recently done business with some of the local florists, much to their sorrow, one of the victims relating his experience to a sympathizing brother florist got quite excited over the affair and exclaimed, "Well, the next time a stranger comes here, whether I know him or not, he can't have anything. No, sir! I'll cut off both my right hands first!"

Ornamental Bedding.

PART III.

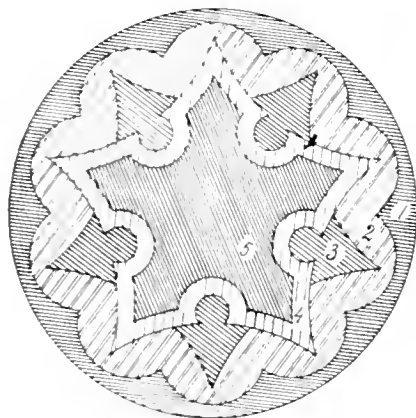


Fig. 6.—Ten feet diameter.

Very often in designs, and especially in scroll work, circles with different radii are joined so that there is no break at the intersections, no matter how much difference in size. This is only the case when the circles intersect on the mutual diameter. Fig. 7 will explain this better than words.

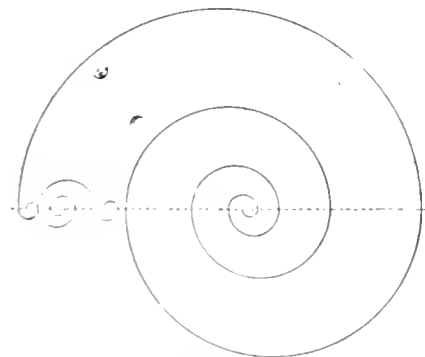


Fig. 7.

These spirals consist of semi-circles of different size, meeting each other on the dotted line in which also all the centers lie. Consequently, if you have a design with this kind of intersections, you must find the two centers, draw a line through them and the intersection is where this line cuts the curve.

1. *Alternanthera amoena spectabilis*
2. *A. aurea nana*; 3. *A. spatulata*.



Fig. 8.

Here is an example of this kind, the intersections marked with crosses. This is also a different kind of a design as it is symmetrical on the diameter and not on the radius as the preceding ones, we can

not find the centers by division, but must "shoot centers" using two convenient points as the base of construction. These designs are more difficult to lay out, but much prettier than the others, and can be used with more success for smaller beds. Fig. 8 for instance is for a seven foot circle. A working sketch would look like this.

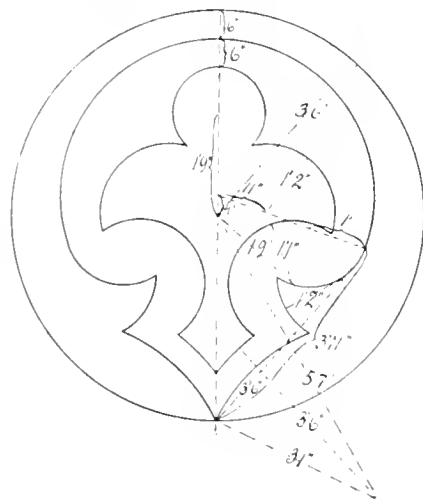


Fig. 9.

Three of the centers are in the diameter the others are found by using two tape-lines, putting the rings at the ends over the points indicated (main center and lower end of diameter) and adjusting them until the respective measures meet, and then we put a peg there; find the corresponding center on the other side, draw the respective curves, find the next two centers, etc., mark the lines as you proceed. If you have only one tape line, slip the ring over one of the main points, draw with the indicated distance as radius a short curve on both sides, about where you judge the centers to lie, repeat this operation from the other main point, and the two centers are where the curves intersect. Figs. 10 and 11 are two more examples of this kind.

1. *Alternanthera amoena spectabilis*; 2. *A. aurea nana*; 3. *A. spatulata*; 4. *Santolina incana*.

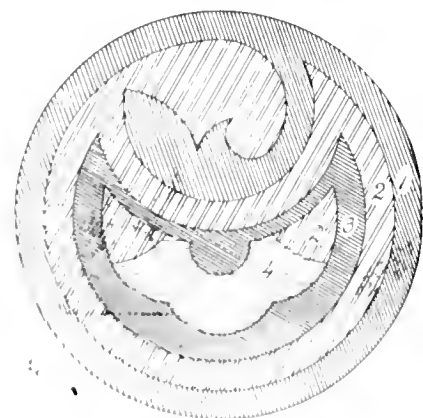


Fig. 10.

1. *Alternanthera*; 2. *A. aurea nana*; 3. *A. amoena spectabilis*; 4. *Santolina incana*.

For construction of a square we use the sides and for control the diagonals. Suppose we lay out an eight foot square.

First get the base *a-b* eight feet long and set pegs, from one of these *b* for instance, measure eight feet out about square on the base and set a peg, *c*, with a radius of eight feet "shoot" *d* from a

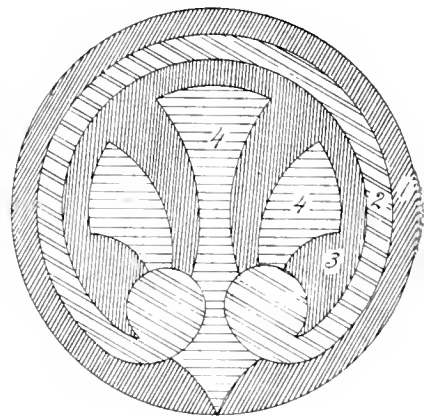


Fig. 11.

and *c* and put a peg there, now tie a piece of twine from *a* to *d*, from *d* to *c* and from *c* to *b*; measure the diagonals *a-c* and *b-d*, and unless you have been very lucky, one is longer than the other. Take up pegs *c*

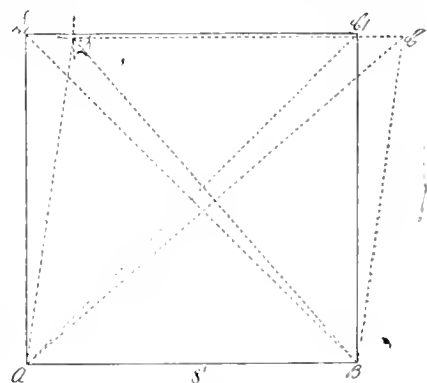


Fig. 12.

and *d* move them a little in the direction of the shorter diagonal, set them in the ground again with the twine stretched, measure the diagonals and if not yet alike, proceed as before until you have them equal. This is a way I have found easy and practical, but the same result can be had in many different ways.

H. HANSEN.

The Ideal Chrysanthemum.

In approaching this subject I feel that I am dealing with a question that can not be answered off-hand; although, at first, it seems to be quite simple, the more one studies the matter the more complex it becomes. It is hardly possible to imagine an ideal flower that would be accepted by all, for nearly every one has his own likes and dislikes as regards color and form. The point of view from which one looks at the flower makes a great difference in his estimation of what constitutes perfection. If a grower for the market, the ideal flower would be one which possesses a color which is always in demand; petals which will display this color to the best advantage, at the same time having substance enough to prevent the flower from being bruised in shipping; the foliage must be ample and handsome to properly set off the flower, and the stem must have strength to hold the flower erect, so it can be seen to the best advantage.

The amateur who grows the chrysanthemum out of pure love for the flower would probably differ somewhat in his ideal, for the shipping qualities of a flower make but little difference to him; his ideal would probably be the flower which combined what seemed to him the most beau-





CHRYSANTHEMUM MODESTO AS GROWN IN ENGLAND.

tiful color with greatest elegance of form.

While a flower with incurved petals might possibly serve as an ideal in whites, it most certainly would not do for the other colors, for to get these in their purity the upper surface of the petals must be exposed, and we can only find this in a reflexed flower.

One class should not be set above another, for they all have their admirers, and it seems to me that it is not desirable

to establish one ideal if it were possible, for the great charm of the chrysanthemum as a flower lies in its infinite variety of form, and the great range of color which it displays. If we must have ideals, there should be as many as there are distinct classes, and each combine the distinctive characteristics of its class in the highest degree possible, with the most beautiful colors, rich foliage and strong stem

A. H. FEWKES.

#### Connecticut Horticultural Society.

We have received the list of premiums offered by the Connecticut Horticultural Society for competition at its exhibitions of 1898 and spring of 1899. The exhibitions will be held in June, July (sweet peas), September, November (chrysanthemums), and March 28, 29 and 30 (flowering bulbs, roses and carnations). Copies of the list may be had on application to the secretary, C. M. Rodgers.

## Orchids for Florists.

The practical commercial florist will appreciate the fact that of the very large number of cultivated species there are comparatively few orchids that are suitable for his purpose, or that will repay for their culture in dollars and cents. It will be found that the merely curious or botanically interesting kinds will not attract the great majority of buyers even as they are cultivated by the few who are known as orchid lovers, but there still remain enough kinds that are of surpassing beauty and appeal to all by their coloring and form, and fortunately these are also the cheapest and most easy to procure, because collectors go to get these, and others are collected often by mere accident. Many a new plant has been discovered in this way and some of the most beautiful, too, even when the object of their search has eluded the collectors.

We have found that the genus that finds most favor among those that can afford to pay the price is the *Cattleya*, a genus that is a purely American one, extending from Mexico to Southern Brazil, and from the cultivator's standpoint the *Laelias* may be included with the *Cattleyas*, for they differ only in the mere accident of having eight pollen masses instead of four, and botanists may yet see the wisdom of merging them into one genus at some not very distant date. If we take the two kinds named, it is possible to have flowers all the year round by selecting the proper species and varieties, and in passing it may be said that of the *Cattleyas* all the best known are classed as mere geographical forms of the original *C. labiata*, and these will include all the largest flowered and best colored in the genus.

Taking the typical *Cattleya labiata* as a starting point in the season of winter cut blooms, we find it comes in at a very opportune time, just as people are coming home from mountain and shore and are beginning to think of entertaining at their homes. Five years ago this *Cattleya* was worth its weight in gold, but its rediscovery in a locality hundreds of miles from its original place of discovery is now a matter of history and cause for comfort both to introducers and growers alike, for it is one of the brightest and easiest grown *Cattleyas*, requiring no special treatment to do it well and can be obtained at very low prices at the present day. We have noticed that when cutting the flowers it is essential to cut the stem and sheath close down to the bulb, for if a portion of the sheath be left it will hold moisture and result in the loss of both leaf and bulb if not noticed in time. This is a peculiarity more especially applying to this kind, but we have also had it occur in plants of *C. Trianae* in mid-winter, when moisture was not evaporated rapidly by a free circulation of air in the house.

Following *C. labiata* in quick succession comes *C. Percivaliana*, and while not so large it is brightly colored, the combinations of crimson and gold in the lip making it very conspicuous and desirable. This has been found to be the most difficult to grow satisfactorily of all the *labiata* group, though there are individual plants in the collection that could not be grown better or flower freer, invariably those plants that have the largest bulbs made in their native woods prove the easiest to grow and it may also be said in this connection, that plants that made thin weak bulbs in their native woods cannot under the most skillful cultivation be induced to put on good fat ones, this has been our experience with

many plants of all the kinds. *Cattleya Percivaliana* ought to continue the succession of bloom until Christmas, and even later into January if enough be grown. It is a native of Venezuela and comes from a somewhat lower elevation than the Colombian varieties, and enjoys a little more warmth in consequence so that it should be placed at the warmest end or corner of the house.

Almost all who see orchid flowers for the first time, ask how long they will last, and the reply is that under favorable conditions they may be kept three weeks but there are times when they will not last more than one week. When *C. labiata* first became plentiful, it was the impression that it came from a "warm" country or what is known as such among cultivators, and the few we had were grown in the warmest house; the flowers were of very poor texture, and lasted about a week, and great was the disappointment. The plants also began to make a second growth before resting, and here was the key to the situation, too much heat. We now find it the most durable of flowers with as much substance as could be desired, and also very fragrant when the sun shines. In a cooler temperature, however, there is still danger of the flowers decaying from too much moisture, and plants in bloom should be taken to a more airy and buoyant atmosphere if it is desired to keep them as long as possible. We find they last longer in the dwelling house than in the house they grew in.

*Cattleya Trianae* is, without doubt, the queen of winter flowering orchids, and more of this variety is grown than of any other for commercial purposes. There is infinite variety in the plants, no two being alike in a thousand. In the first flowering of a newly established lot there is great interest attached, as some are of great value while others are poor in comparison. It is easy to grow either suspended or in pots on the benches, or as we have recently seen, merely tacked on boards. The medium in which *Cattleyas* are grown is not of so much importance as the conditions that prevail, but *C. Trianae* will take longer to kill than most others under adverse conditions. The season of flowering will last for about two months where a number are grown, especially if some be encouraged by a little warmer position all the time, selecting for this treatment those that are apt to flower earliest naturally. In this way we have found that there are plants that flower every year from the first time quite a month before the main lot, and this is quite an advantage. In giving orchids a little more heat to bring them on it must not be understood that forcing is meant. Orchids cannot be forced as other plants, in the general acceptance of the term; if this is tried, it will be found that new growth will be the result instead of flowers and at their expense, with a consequent weakening of the stored up vigor. A neighbor of mine once got all his *Cattleyas* into bloom at Christmas; they were recently acquired plants, and it was considered a great stroke, as it reflected on others and their skill, the plants have not yet fully recovered.

*Cattleya Trianae* ends the list of winter blooming varieties, unless we take into consideration *C. Chocoensis* which is a very closely allied plant and also very beautiful, and if the florist wants only those that bloom in mid-winter he will not need *C. Mossii*, *C. Gaskelliana*, *C. gigas* and others, but it is safe to assert that if a few are grown of those that come in the

summer months, there will always be those that will appreciate them at those seasons, for the great thing is to keep people interested in the collection whether it be a private one or a commercial venture. E.

## Carnations.

In our eagerness for novelties we are losing sight of one of the fundamental principles of nature, and that is the law of selection. In this I will again use Helen Keller for an example.

The past week a trip among some of our local growers demonstrated the fact that selection should not be confined exclusively to those of strong constitution, although that is a very desirable feature to have added to free flowering.

Since the introduction of Helen Keller I and a few others have been selecting our cuttings from those plants that produced all good flowers and a fair amount of them. A plant that produced one sleepy flower was not used to propagate from, and the result is that to-day we are growing Helen Keller with profit, every bud making a salable flower and almost every bud making a flower of first quality. The plants producing these flowers are not as healthy and strong as the original stock, and the variety may in the course of a few years longer run out.

My own plants are not nearly so good looking as many I have seen, but we are getting results and the fine looking plants are producing practically nothing but sleepy flowers. Results are what we are after as cut flower growers, and it is better to have a hundred plants that are producing good flowers in abundance than a thousand plants that produce scarcely anything but fine foliage. Do not understand me as decrying good stock, it is one of the important things to look after, and where you can combine strength of plant, freedom of bloom and first quality flowers all in one variety you are very fortunate indeed.

Among the growers I visited I noticed some Scotts that are going the same way as Keller; they have been selected for strength of plant more than for freedom of bloom and quality of flowers, and the result is a fine looking lot of plants with very few and very ordinary flowers. With these growers Scott is doomed for next season, and yet where the variety has been selected with more regard to the flowers than to the plant it is a hard one to eclipse from a dollars and cents point of view.

The lesson I have learned from Keller is that in selecting cuttings it pays to look first of all to the quality of the flowers, second to the freedom of bloom, and third to the health of the plant. Even if a variety does run out under this treatment in the course of five to seven years what matters it, providing for those five to seven years it has paid as a cut flower producer. Before the end of that time, with the number of seedlings now being introduced, there will be one as good or better in the market, and you will have the money to stock up on the new one.

ALBERT M. HERR.

## Careless Letter Writing.

Mr. W. W. Coles encloses a letter written him asking for information and enclosing postage, but having no signature. Carelessness in dating, signing or addressing correspondence is one of the cardinal sins in the commercial world and is the cause of a vast deal of annoyance and financial loss.



ONE OF THE SHOW ROOMS OF H. BAYERSDORFER &amp; CO., PHILADELPHIA.

**Boston.**

BUSINESS SHOWS STEADY IMPROVEMENT.—  
EASTER PROSPECTS.—CARNATIONS DOING  
WELL.—LOCAL NOTES

A spell of rainy weather has been effective in reducing the heavy surplus of flowers forced into bloom by the previous warm days, and conditions are rapidly improving in the cut flower market. Easter being now close at hand, anticipation of its wants and its possibilities occupies the attention pretty fully of all interested and leaves little time or inclination to continue the complaining spirit that has prevailed for the past few weeks.

As to Easter prospects, it is evident that lilies will be good property. The number of *L. Harrisii* grown in this section this year is not as large as in past years. In fact, *L. longiflorum* has been always the favorite here, and the disease so prevalent with the *Harrisii* has helped to make the preference still more pronounced.

Carnations are, even now, bringing good prices and have held their ground better than any other flower during the

past week. That they will enjoy a good Easter demand seems to be the prevailing opinion, but it is well to qualify the prediction with the proviso that the stock be of good quality and, especially, that it be fresh.

Part I of the transactions of the Massachusetts Horticultural Society for 1897 has been received by the members. It contains the full text of all lectures and discussions for the season of 1897.

News comes of the death, at Washington, of Hon. John Simpkins, of Yarmouthport, on Sunday last. Mr. Simpkins' name is associated with some of the grandest exhibitions here, in the past, of aquatic flowers and chrysanthemums.

N. F. McCarthy and W. H. Elliott have just returned from a vacation trip to Florida. Mr. McCarthy's auction sales will commence about April 14.

Jackson Dawson will deliver a talk on his last summer's European trip before the Gardeners' and Florists' Club on the evening of April 5.

Visiting Boston: Alfred Dimmock, New York.

**Bayersdorfer's Store.**

H. Bayersdorfer & Co. are just now up to their ears in business. Their spring trade is the best they have ever experienced. In addition to their large building they last winter added a big warehouse floor in an adjoining building that almost doubled their storage capacity. The accompanying photo shows one of their salesrooms, the easiest to take, all the others being so crowded with goods they made no showing in the camera.

This stock is constantly changing, importations coming every month in the year from Europe, and in addition a large force of hands are being kept busy getting out original and order work. One set of men year in and year out make nothing but wheat sheaves, their trade in this stock being enormous. The Bayersdorfer member of the firm is the same old Harry. Hard work seems to agree with him and he is an exceptional visitor who gets away from him without leaving a big order behind, as Harry is a salesman to the manner born. K.



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Death of a Well Known Florist.

John O. Callaghan died Tuesday, March 22, at his home, 104 Grand street, Rochester, N. Y., aged 73 years. He was born in County Cork, Ireland, and came to this country forty years ago and settled in Rochester. He entered the employ of Lilwanger & Barry and was connected with that firm up to the time of his death. He had special charge of the propagating of roses.

Rose Notes.

Cuttings struck in January and potted off as soon as ready should now be well rooted, and will probably be ready for a shift into a larger sized pot; other batches in the sand should come out immediately they are rooted. Just ahead of Easter bench space is usually very scarce and valuable, and the temptation is apt to come to us, that using a little extra care we can hold the cuttings in the sand, or the plants in the small pots a couple of weeks longer, when we shall have an abundance of room and more time to handle them. A very good scheme if it can be carried out successfully.

Success in handling young roses in pots depends largely upon two things, potting and watering. As soon as a rose cutting is rooted it should have a chance to make its roots in soil rather than sand; it is comparatively easy to pot a cutting with roots an inch long, but very difficult to crowd a cluster of roots six inches in length into a 2 1/4-inch pot. As has often been said in these columns, success in rose growing is achieved by attending to all the little details as and when they present themselves, rather than as a result of natural shrewdness and great ability, and a very important detail is that of potting off the cuttings at the proper time. The question is often asked, How long is it safe and wise to leave a plant in a 2 1/4-inch pot? It is hardly possible to lay down any rule that could govern in all cases; difference in variety, soil, temperature, etc., make it imperative that every grower be his own judge. Two things, however, we should ever bear in mind, which are applicable under all circumstances; never repot into a larger size until the plant demands it, and never allow a batch of young roses, if wanted for cut flower purposes, to remain in small pots until the roots are gone and the whole plant has become stunted and starved; fine plants cannot be grown in this manner; when the pot has become well filled with clean white roots and the foliage is bright and healthy is the time to repot rather than after the roots become black and the foliage yellow and sickly. Years ago we were told to grow our plants along carefully until May or June, then set outdoors to ripen off, and when most of the foliage had dropped and the plants had got well stunted they were brought in and set out in the benches. A plan the very opposite of this is followed at the present time. The best growers to-day aim to so manage the potting, watering and temperature, that there should be no interruption of growth and progress from the taking of the cutting until the season's work is ended.

I think for potting roses it is a mistake to use soil that has laid very long in the compost heap, we have had the best results with that laid together the previous fall, and not too much decomposed. The rough turf that cannot be rubbed through a 3/4-inch screen makes the very best kind of drainage. Too much fertilizer at this time should not be used; rank growth is not as desirable as strong, hard, sturdy growth, with foliage impervious to mildew and the like.

A word to young men about potting. How many plants should a man handle in a day, shifting from 2 1/4 into 3 1/2-inch? As many as he can do properly, no more. What might properly be termed poor work in this line? When a newly potted plant turned out shows hollow spaces round the sides, when the soil is firm on top of the ball and loose at the bottom, when the pot has been almost filled with

soil and an attempt made to press the plant down into it, thereby damaging the roots and loosening their hold on the ball, when a plant is potted so high that the first good watering presses it over against the side of the pot to be afterwards driven around in a circle every time the hose comes into play, these are evidences of miserable potting that no man who takes any pride in his work would allow. Good work in potting need not necessarily be divorced from rapidity of motion; a man may pot rapidly and well if he wants to and has sense enough, or lacking ambition his slowness may not be offset by quality of work. There is one thing to remember always, that numbers should never be counted on to hide or counterbalance poor workmanship. ROBT. SIMPSON.

Chrysanthemums.

It is with reluctance that we begin a series of articles upon the cultivation of this popular flower. The most important reason for our hesitancy is that this subject has been thoroughly and carefully treated by several of the eminent growers of the country time and time again; thus there is limited opportunity of presenting your readers anything new or original. And again, it is difficult—in fact it is impossible—to give directions that will be practical to all, as so much depends on the conditions that surround the grower. To our mind early June planting is the most practical, especially to those having plenty of high houses, and who can easily devote the space for this purpose by the middle of the month. This is very important to those growing early varieties for the market, and those interested in the exhibitions will find their products none the worse by adopting this course.

To the first-class growers we would suggest they consider their wants very soon, deciding upon the varieties and arrange for the quantity required. Orders are often placed the first of August for early sorts with the expectation of good results. And how inconsistent when we expect these little plants, three to four inches in height, to complete the growth and set buds in three weeks, as they must do if we look for flowers early in October. Disappointment, as a rule, is the result, for a wide-awake competitor has planted early, and has the same kinds with fine strong wood two and a half to four feet high at the time the others were planted, and in consequence has ample stem and foliage, flowers that have depth as well as diameter, with the crop marketed several days before the others are in condition to cut. Those who intend to compete at the fall shows should soon decide what varieties are best suited for their purpose, and see that the stock of these is in proper condition. In making the selection remember your strongholds are the sorts which you know do well under your management. It is advisable to try the novelties, as there are always some that are improvements in one way or another and may be very useful, but do not overdo in this matter; remember it is flowers in competition and not varieties. This is certainly the case when the schedule calls for white, yellow and pink without specifying the variety. Should the list include such slow growing sorts as Golden Wedding, Mayflower, Liberty, Maud Dean and Mrs. Jerome Jones we would advise that cuttings of these be put in the sand not later than April 15, which will allow six weeks for them to root and become established in small pots. Some may take exception to the statement that

these are slow growing, but they must be so considered when compared with Mrs. S. T. Murdock, Niveus, Helen Bloodgood, President W. R. Smith, etc., and most of these are slow in rooting as well as inactive until warm weather prevails; it is for these reasons we think it best to have them fairly strong when needed.

We do not wish to imply that good flowers cannot be produced in less time, for, to the contrary, we have had satisfactory results from July planting, and more particularly has this been true with the stronger growing sorts.

Those that do not have six to eight feet in the clear between the benches and glass will be obliged to either defer planting until July or keep the plants tied down, and this entails a great amount of labor. Those who have purchased novelties and wish to make the most of them, will find the surest way is to prepare a bench of three or four inches of good soil and plant them in rows eight inches apart and four inches in the row; thus treated they will make cuttings faster and of better quality than where they are kept in the pots. This method may be employed to produce a large stock of the standard kinds. ELMER D. SMITH.

#### Bedding Plants.

The most important point to figure on in regard to bedding plants is to have them nice and stocky, and not drawn or hard, but in a healthy growing condition when planting out time comes, so that when they are set outside they will not suffer, lose a great deal of the foliage, and look like sticks for a month or so. It should be the aim to have such plants as geraniums, lobelia, ageratum, pansies, petunias and all flowering stock well in bloom when the proper time comes for setting them out, as such stock unless in good condition, and well flowered is hard to move. As a general thing everybody likes to get this kind of stock out of the way as soon as possible, to make room for planting chrysanthemums and other stock for cut flowers. Geraniums will need to be now well established in 4-inch pots, and should not be overcrowded but given plenty of light and air, and care taken not to over-water or allow to get too dry, but be kept in a growing condition as much as possible, and if any are getting too long it is not too late to nip a cutting here and there, which will make nice little plants if you have any call for such stock later in the season, and will also do to be planted out in the lot for stock.

It will greatly improve the looks of a house of geraniums to have all the different colors set on the bench by themselves and carefully labeled, so if anybody wishes to know the name of a certain variety the salesman will have it right there. By keeping each color together it will save several steps when picking out a big order during a rush.

The best of a great many varieties of geraniums which we have tested here and the quickest sellers are, *Heateranthe*, red; *W. P. Simmons*, dark red; *Le Cid*, dark red; *Mrs. E. G. Hill*, single, salmon, fine; *Beaute Poitevine*, salmon pink; *Mary Hill*, deep pink (never been able to get enough stock of this one); *La Favorite*, double white; *Mme. Aime Chevaliere*, double white; *Mrs. J. M. Garr*, single white, and *Athlete*, single scarlet. These have all proven good bedders, and stand the sun well. Our customers prefer the semi-double varieties most, and as a rule single varieties are not much called for.

*Coleus* should be propagated as fast as

possible now, and potted on as soon as they require it. Give them a good warm place, with plenty of sunlight to bring out the colors; we find a nicely colored plant in a 3-inch pot to be the best seller.

Dwarf ageratum and dwarf lobelia, when well flowered in 3-inch pots, meet a ready sale. They need a cool, even temperature and should not be allowed to become dry. The green fly will need to be kept in check by light fumigating.

Both the double and single dwarf sweet alyssum are in great demand when well done. The flowers should be picked from the double variety if they are getting long or going to seed; they will branch out again and be just right by the middle of May.

Vines for vases, such as *maurandya*, *Convolvulus minor*, *Thunbergia* and other annual vines should now be potted on, and if they get too long top back a little, they will then make nice branching stock.

All annuals such as asters, phlox, margolds, stocks and zinnias should now be pricked off in flats, and not allowed to become drawn, but hardened off gradually; they will then be ready for the cold frame in a few weeks.

Hotbeds should be ready now for *alternanthera*, and this is a good place to start your cannas, providing there is enough headroom. Overhaul and start into growth any bedding roses that have been wintered in cold frames. They need a good light place, free from draughts and not over-watered, and keep a sharp lookout for mildew and greenfly. Cut out any dead wood and be sure the drainage is good.

Petunias, fuchsias, heliotrope and pelargoniums that are intended as flowering plants for Decoration Day will be greatly benefited by an occasional application of weak liquid manure, and should be neatly staked and tied. C. W. JOHNSON.

#### New York.

MARKET CONDITIONS.—TULIPS, ROSES AND VIOLETS OVER PLENTY.—CARNATIONS AND SMILAX IN SHORT SUPPLY.—TENDENCIES IN WINDOW ADORNMENT.—LOCAL CUT FLOWER AND PLANT TRADE ITEMS.—SERIOUS ILLNESS OF A CHILD OF A. S. BURNS.

A noticeable feature of the cut flower market at present is the heavy shipments of tulips coming in. They are in many colors, both single and double and they are very difficult stock to dispose of. Their uses are limited as compared even with daffodils. Growers assert that they get less for the flowers than the original cost of hulbs in some cases. But they said the same last year, yet they persist in forcing large quantities of them, nevertheless. Just why this is so, it is hard to explain, but it is natural to assume that they will in time get tired of raising tulips for nothing but glory.

The tone of the market generally seems a little better than last week, and stock moves rather more freely. Of roses there are immense quantities being received daily and they go, necessarily, at very low prices when large lots are disposed of. Carnations are really in short supply. The market could easily consume a good many more but they must be good. Poor carnations find trouble wherever they show up. Smilax is also scarce, it being out of the question to fill an order for any very large amount of it.

As previously reported violets are overstocked with prospects for a tremendous cut of blooms of good quality for Easter if the weather does not run too warm in the meantime. As to lilies it may be said

that most of those being received just now are of miserable quality. They give evidence of having been held by the grower as long as possible in hopes of an improved market, and are sold at prices that sound ridiculously low until one sees the goods. It is noted, however, that when guaranteed real good selected stock is demanded in giving an order, buyers have to pay a good price and they don't grumble much over it either.

There are quantities of belated freesias to be seen and here again one may wonder why anyone should expend the time and money to bring in freesias at this season when the market is so overloaded with an infinite variety of flowers and the only prices possible are far too low to show anything but loss. Lily of the valley is abundant and cheap and it naturally outsells the freesia in all directions.

While undoubtedly the florist stores will all stock up heavily on the regulation varieties of Easter plants, yet it is worthy of mention that there is an apparent disposition to adorn the show windows in the more pretentious localities with a choicer class of material than is found in the customary Easter stock. Farleyuse ferns, orchids and rare things of this character seem to have the preference. Many pots of blooming violets are seen on all sides.

A new carnation which E. C. Horan is receiving from A. Schultheis is named the *Mrs. Schultheis*. It is a good sized flower of a peculiarly soft and luminous pink and Mr. Horan says that it is well liked.

M. A. Hart has added another big ice chest to the equipment of his new establishment on Twenty-ninth street.

Plant wagons are out in full force in all directions with their brilliant loads of geraniums, petunias, pansies and flowering bulbs.

The plant dealers opened on schedule time at Clinton Market on Monday and are very happy over the progress that has been made in providing comfortable quarters for them.

Harold, the youngest son of Mr. A. S. Burns, was attacked suddenly with pneumonia on Sunday and for two days his life was despaired of. A slight change for the better is now reported.

Rudolph Jahn, of Brooklyn has failed, owing considerable sums to some of the New York wholesalers.

George C. Watson, of Philadelphia, will read a paper on "The Florist Versus the Flower Show," at the Florists' Club meeting of April 11.

Among the visitors: W. H. Elliott, of Boston.

#### Chicago.

STOCK CONSIDERABLY REDUCED.—FAVORABLE WEATHER INCREASES LILY STOCK.—A CLEVER SWINDLER.—PERSONAL AND VISITORS.

There is very little change in the cut flower market except that the stock on hand has been considerably reduced; a week ago there was quite a large stock accumulated in the wholesale houses. Last Friday and Saturday several large orders were shipped out of the city. Sunday morning everything salable was cleaned out; since then there has been very little surplus stock.

There is at present every indication that the coming Easter trade will be the largest ever done in Chicago.

The very favorable weather we have had for several weeks past has brought out a much larger crop of lilies than was anticipated a few weeks ago.

There is a very good stock of roses coming in of all the leading varieties; the crop of extra long-stemmed American Beauties will be much larger than ever before at Easter.

Carnations will be in fair supply.

There will be enough bulb stock to supply all demands except, perhaps, lilies.

Considerable inquiry is being made for Easter flowers for both retail and shipping trade. The retail trade is very quiet; very few flowers are being sold at the retail stores; the street fakirs—one or more of whom may be found upon every corner in the business portion of the city—seem to be doing most of the business at present.

Mr. I. Mangel has leased the store on the northwest corner of Washington and State streets for five years at a rental of \$8,000 per year. The location is about the best in the city.

A well dressed gentleman visited several north and west side retail florists and gave some very liberal orders for flowers to be sent to the funeral of a friend of his who was killed in the Wabash avenue fire; after the order was fixed up he would discover that he had not the amount of cash with him and could not pay for the flowers unless the florist would kindly cash a check, generally for about double the amount of the bill. The florists kindly cashed several of these checks; when presented at the bank the checks were found to be worthless. At the address where the flowers were sent no such person was ever known.

A. S. Vaughan started out on the road about ten days ago to sell bulbs; he found the florists in a decidedly belligerent attitude, they being about to declare war against everyone in the bulb trade. After a recognition of the enemy's position he retreated back to Chicago and opened up diplomatic correspondence with the enemy, with the hope that after they get their Easter returns peace may be declared, and they will then be willing to again enter into business negotiations.

Mrs. H. B. Whitted, of Minneapolis, Minn., was in the city this week to make arrangements for Easter week.

J. D. Thompson and James Hartshorn leave Chicago to-day for the east in the interest of a new greenhouse plant they will build this summer. The plant will be devoted to the growing of high grade carnations. Mr. Hartshorn will be manager.

L. H. Hunt is home, sick with malaria.

Visitors: P. Vos, representing the Holland Bulb Co., Holland; Herman C. Baartman, Sassenheim, Holland; C. S. Ford, Jr., representing A. Herrman, New York City.

#### Philadelphia Spring Show.

The spring show opened with the handicap of a rainy day. The space devoted to the exhibits might have appeared more crowded, and the visitors had too little trouble in getting about to suit the treasurer. Still the show can be said to be fairly successful. In the main hall were arranged large groups of foliage and blooming plants, while the foyer contained the cut flowers and design work.

H. A. Drexler received a certificate of merit for a group of well grown palms, while in those arranged for effect Westcott Brothers took first, and A. Woltemate second. Robert Craig & Son had a pretty group of blooming plants for exhibition only.

W. E. Harris won first for six hand some geranias in his colored enameled pots, giving the plants a very neat and novel appearance. A specimen of rhododendron in the center was a beauty. A

Woltemate received second prize. He also received first for a collection of orchids.

In the cut flower exhibit the display of carnations was the best. R. Craig & Son carried off the most firsts, winning with Hill for white, Pingree for yellow, and Jubilee for red; also second with Lily Dean for variegated, twenty-five of each.

H. Weber & Son won first with Triumph for dark pink, first for any other color with a light striped pink, and first for striped with Mrs. Bradt; they were very fine blooms.

J. Heacock received first for light pink with Elizabeth, a fine vase; and J. Burton second for white with Alba Superba.

A. M. Herr staged some fine vases of Triumph, Armazindy, Jubilee and H. Keller.

Wm. Swayne won first for twelve and twenty-five crimson, with Empress; they were fine blooms.

George Christy had a fine bunch of his Mark Hanna.

Hugh Graham exhibited a large vase of his superb pink Victor, not for competition.

George Anderson won first for six Brunners, very fine flowers, and same for twelve Kaiserins.

D. T. Connor won first for La France, and second for Brunners.

J. Heacock won first for six Beauties, and a vase of fifty of same, also for Brides; and second for Bridesmaids; with J. Burton first for Bridesmaids and second for Beauties.

Graham exhibited a beautiful basket of flowers not for competition.

J. Kift & Son won first for basket.

Pennock Bros. first and second for bridesmaid's bouquets.

A. Hoag staged a very pretty bridesmaid's bouquet not for competition.

Other entries will be made on Thursday and Friday and it is hoped there will be more interest shown by the retail men.

K.

#### St. Louis.

Stock shows the effect of the protracted dark rainy spell, and is not quite as abundant or in as good condition as at last writing. Prices have maintained themselves, and no drop can be looked for until after Easter. California violets are over, and their absence from the market is felt most keenly; buyers wanting violets are disappointed when they cannot be had, and seem disinclined to take anything in place of them. An effort is made to fill their place with miniature hyacinths, tulips, and other spring flowers, but it is a hard matter to do so. Some fair doubles are still moving in good shape and sell readily without an advance in price.

All eyes are turned toward Easter and orders are being placed very freely for plants for that occasion. Inquiries for lilies have been made quite extensively, and there appears a probability of there being a shortage of good pot plants; cut lilies, it is expected, will be in sufficient supply to fill all orders. Prices, however, have not as yet been determined upon.

A call upon Julius König, in North St. Louis, found his houses crowded with pot plants and spring stock, most of the latter in small pots waiting for a chance to get into more roomy quarters in frames; there is quite a little Easter stock ready, principally marguerites and bulbous stock. The longiform lilies may be in on time, but look a trifle backward. Quite a stock of miniature hyacinths have been grown this season, and so far with satisfactory results; some selected bulbs

of Dutch hyacinths have made beautiful plants. A novelty in growing for Easter was noted in a large number of tulips, one bulb in a small pot, principally La Candeur and Tournesol. These will be used in filling window boxes and plant baskets; miniature hyacinths grown the same way will be used for the same purpose. An excellent red sport from Mrs. Bradt has made its appearance, and has about been fixed, having been grown for the past two seasons; all stock possible is being worked up and will be planted the coming season. The stock all through was in good shape. A novelty, or rather oddity, was several standard geraniums that had been top worked and were bearing flowers of different colors.

A visit to Hy Emmons, in Bellville, showed him to be in good shape with his Easter stock; his lilies will be just right, and there will be quite a few of them; there is also a nice batch of hybrids; Jacqs, Brunners and Magna Charta are just showing color; in bulb stock there will be a frame of Paper White grandiflora and miniature hyacinths.

Carnations show the effect of heavy cuttings, Daybreaks especially. Emma Wocher is beginning to show its tendency to come single, owing to the warmer weather. It will be largely planted again next season, as it has cut two flowers to Scott's one during the winter months, and has averaged a better price. It is profitable to grow, especially for winter flowers, and use its bench room for small plants during the spring. Nearly all the young stock has been shifted from flats to 2-inch pots, and looks fine. Roses were also making a strong growth but will be a shade off for Easter. Beauties had an extra strong clean growth, likewise Woottons, Brides and Bridesmaids, especially the two-year-old stock, were making heavy canes from the base of the plant.

Wm. Trillow, at the St. Clair Floral Company's plant, was hustling carnations out into frames to make room the large number ready to come out of the sand, and in order to shift up the young stock on hand. Quite a lot of roses, geraniums, salvias and other stock is in 3 and 4-inch pots, and will need no more attention until sold, save giving more room. Carnations are the principal stock grown, and have averaged very fair during the season. Jubilee was showing up finely, but has proven rather late; Dazzle will be the main variety grown for red, with Portia to help out; Meteor will be discarded and Jubilee given a further trial; Scotts have proven a standard pink, and will be mainly relied on for that color; Mrs. Bradt has made a fine growth, and while not as prolific as some other varieties, it will be more extensively grown as a fancy variety, returning also a fancy price; Alaska is favored as a white, although a bench of Uncle John has proven very satisfactory; these two varieties with several of the newer whites will be tried again. A bench of callas in pots were full of flowers, and judging from the number of stumps left on the plants from flowers cut, they must have proven a paying crop. A bench of mignonette was in full crop and in excellent shape; quite a quantity will be cut for Easter. Longiform lilies will be too late for Easter use, the L. Harrisii grown, however, will be on time.

At E. W. Guy's the carnations were fine, a house of Daybreak and Armazindy being specially worthy of note; Armazindy is coming a shade smaller than during the winter season, but still ranks as fancy.

R. F. T.

**THE AMERICAN FLORIST**

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address: THE AMERICAN FLORIST CO., Chicago.

WITH this issue Mr. W. N. Rudd retires  
from the active management of the  
AMERICAN FLORIST.

WE PROMISED our advertisers that a  
copy of this issue would be mailed to  
13,000 persons directly interested in the  
merchandise advertised, but we actually  
mail over 15,000 copies. The circulation,  
as usual, is limited to those in the trade.

BY YOU, READER, who receive this Easter  
number, though not a subscriber, we ask  
a careful perusal of the eighty-six pages  
here presented. The AMERICAN FLORIST  
offers you fifty-two numbers per year, not  
all of this size but of equal and vital value  
to you and your business, and invites you  
now, at the beginning of another active  
year, to send us one dollar for a year's  
subscription.

**Philadelphia.**

PRICES ADVANCING.—PROSPECTS GOOD FOR  
EASTER TRADE.—THE FLORAL EXCHANGE  
BUILT FIVE NEW HOUSES.—VISITORS.

The spring exhibition of the Horticult-  
ure Society is being arranged at this  
writing and bids fair to be a credit to the  
committees, who have worked hard to  
make it a success. The store men have  
apparently not lost much sleep over their  
exhibits, and competition in arrangements  
of cut flowers is not likely to give the  
judges much trouble—more's the pity.

There has not been much change in the  
cut flower market the past few days,  
although there is a tendency to stiffen  
prices on account of the expected rush  
next week. Violet prices have taken  
quite a brace, the warm weather of last  
week was too much for their gentle  
constitutions. The single varieties are now  
very small and it takes so many to make  
a respectable looking bunch that it hardly  
pays to pick them. The double are also  
much smaller and quite scarce; 50 to 75  
cents per hundred is the price.

Roses continue about the same; Lons-  
dale is now sending in the finest Beauties  
of the season to S. S. Pennock. They  
have stems six feet long with elegant  
flowers and foliage. Six dollars per dozen  
is the price such as these bring. Very  
nice stock with four foot stems goes for  
\$3. Teas bring from \$4 to \$12 per hun-  
dred, the \$6 to \$8 ones being the popular  
sizes. The Easter houses of Brunners are  
commencing to come in, \$2 per dozen  
being the price for fair flowers.

Carnations are stiffening a little, \$2  
being asked for all good stock. For  
next week prices of carnations will  
advance more than any other flower; \$3 to  
\$4 for good stock will be about the price,  
with the fancies a trifle higher. Roses  
may advance about \$2 above the present  
figures for the teas, while the Beauties and  
Brunners will no doubt soar quite a little.

One of the commission men said in  
regard to the prospects of Easter trade  
that he expected to have a good week.  
He said he was getting letters from a lot

of people who seldom bought, wanting  
choice things and plenty of them. And  
they will get them too,—that is if any-  
thing is left after our everyday custom-  
ers, who also expect to be busy, are sup-  
plied.

Easter stock in blooming plants is very  
fine this season and the growers say it is  
selling fast. Robert Craig & Sons' Crin-  
son Ramblers are about all sold, and H. A.  
Dreer has had to stop taking orders for  
azaleas, his large stock being all disposed  
of for immediate or Easter delivery. This  
speaks well for a busy time all round, and  
it is to be hoped that April 10 may find  
every establishment, whether grower,  
wholesaler or retailer as bare of Easter  
stock as old Mother Hubbard's cupboard  
was of bones.

The Floral Exchange have just added  
to their plant five houses 22x125; these  
have glass sides three feet from the eaves  
which are six feet high. Four ground  
beds three feet wide are laid out with  
walks two feet wide, one of which extends  
entirely around the house next the walls.  
Meteors are to be planted exclusively,  
this rose having done very well with  
them the past two seasons. Their place  
now comprizes thirty-one houses in all  
with a glass surface of about 60,000  
square feet.

Visitors in town: Lyod G. Blick and G.  
D. Levy and wife, of Norfolk, Va.; W.  
Asparagus Elliott, of Brighton, Mass.;  
W. Feast and E. A. Seidewitz, Baltimore;  
Benjamin Durfee, Washington, and others.

**Cincinnati.**

The inclement weather which prevailed  
here the greater part of last week had a  
paralyzing effect on business. We were  
having lots of rain but on Monday was  
the first indication of alarm among the  
business interest in the bottoms. The  
rain of Sunday and Monday was drench-  
ing; it upset all calculations. "That little  
river," as Mr. Scott called it a year ago,  
is now a rampant little ocean, sweeping  
away bridges, greenhouses and other  
buildings along the line.

Messrs. Fred. Walz, Glins and Wolf are  
again drowned out, and much sympathy  
is felt for them among the craft.

Retail trade the past week has been  
rather quiet, and the flower market Sat-  
urday, owing to disagreeable weather,  
was at a standstill. From present indi-  
cations, there will be enough stock to go  
around for Easter, with the exception of  
Harrisillilies. Violets at present continue  
a glut, but will be scarce for Easter; they  
are about done now. Choice blooming  
plants, such as azaleas, lilies, cinerarias,  
deutzias, spiraeas, roses and bulbous  
flowers will be plentiful.

Our downtown stores are now lavishly  
provided with large assortments. The  
windows are very attractive, but sales  
slow.

Mr. Ernst Mack, of Price Hill, is on the  
sick list. Mrs. Charles Pfeifer, of New-  
port, is also reported ill. Our Holland  
friends are with us. Although railroads  
leading to this city from the east were  
cut off for three days, owing to the high  
water, they got here nevertheless. Messrs.  
Hermann Baartman and H. Van Zonne-  
velt were here the latter part and Mr.  
Kuyck and several others the first part  
of last week. H. SCHWARZ.

**Worcester, Mass.**

Trade at present is fairly satisfactory,  
and good flowers are a little too plenti-  
ful. The weather has kept very warm,  
and this, of course, has pushed things

along in spite of every precaution. It  
has also helped to get in some late batches  
of lilies for Easter, but I still think that  
there will be a shortage of lilies about the  
ninth of April and also of azaleas.

It appears now as if we were to have  
a very early season; the land is in good  
plowing condition and the farmers have  
already planted some early crops. The  
buds on trees and shrubs are swelling rap-  
idly; the earthworms have come to the  
surface and every sign points to an un-  
usually early spring.

The first spring exhibition of the Horti-  
cultural Society was held March 24, and  
was unusually fine, and was well patron-  
ized. The show of carnations was one of  
the best ever staged in the hall and em-  
braced nearly all of the '97 novelties.  
H. F. A. Lange, F. S. Blake and H. B.  
Watts received the premiums in the order  
named. Cyclamens were also in fine  
shape, and the same can be said of the  
azaleas and hyacinths. H. F. A. Lange  
took first premium on all three. F. A.  
Blake was awarded first for some well  
done plants of *Primula obconica*, and F. B.  
Madaus for cinerarias, unusually good.  
G. Marsten Whitin showed a fine collec-  
tion of orchids. A. H. L.

**Milwaukee.**

Trade has improved here during the last  
week, although many of the flowers have  
gone for a low price; pretty plants have  
been selling constantly. It is the pure love  
of them that induces purchasers to take  
them at low prices.

Palm Sunday is more of a feature for  
florists than usual, many churches hiring  
palms for decoration.

Many azaleas intended for Easter have  
come in too soon. Mr. F. P. Dilger  
appears to be the most successful in hold-  
ing his back. Pot lilies will be quite  
scarce. Cut lilies will be plentiful.  
Churches will not decorate extensively.  
There promises to be a large demand for  
small parcels.

March weather has disappointed our  
expectations by being respectable.

Sweet peas and grass seed are selling  
quite lively. C. B. W.

**Rochester, N. Y.**

An unusual quantity of Easter stock  
had been prepared this year, perhaps  
unproportionate to the requirements of  
the city trade, and if all this stock had  
done well and been ready for marketing  
next week, someone would have to stand  
the damage; there is even now more  
potted plants in view than are likely to  
be wanted unless the demand should  
jump up above all expectations. Some of  
our florists would find the growing of cut  
flowers of any description a surer source  
of income than the handling of holiday or  
Easter plants, flowers were hardly ever  
overplenty with us during the past win-  
ter, while plants were offered everywhere  
at comparatively low figures and a large  
percentage of them would not find pur-  
chasers at any price.

The cut flower market was well stocked  
for the past week and trade was good; a  
large amount of funeral work created an  
unexpected demand, and but very little  
stock was left at the end of each day.

Prices have not changed materially,  
only in violets and bulbous stock they are  
very uncertain, the former especially so,  
some lots would go as low as 30 cents  
per 100, while others might bring readily  
75 cents on the same day, but quality had  
something to do with this. J. B. K.

# SYNDICAT DES CULTIVATEURS D'OIGNONS A FLEURS,

OLLIOUES, (Var) FRANCE.



## A Remarkable Foundation in France.

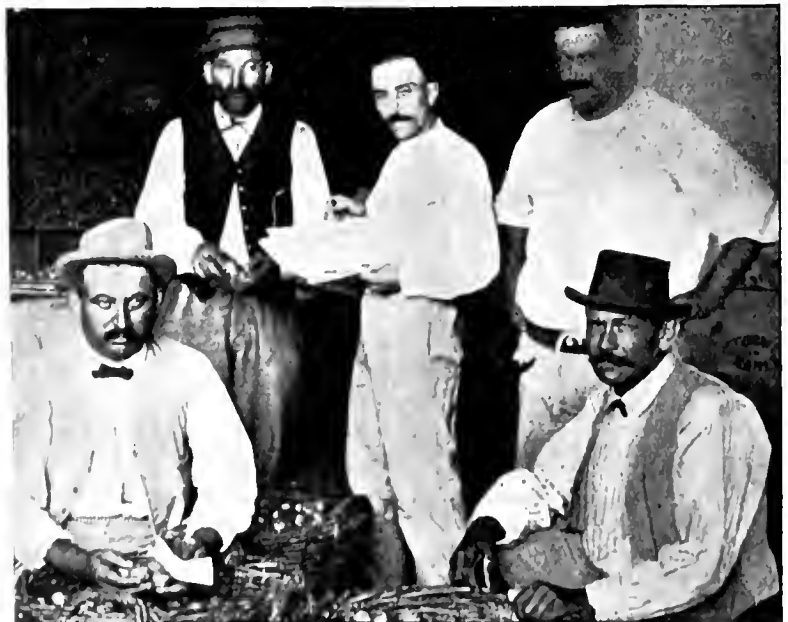
From time immemorial flower bulbs have been grown in the South of France. In the second half of this century the improved means of conveyance by land and sea have made those bulbs an article of commerce, well known both in North America and in Europe.

Down to 1889 nearly the whole crop of Southern France was bought for a trifle by forestallers, who sold the bulbs at high prices to their customers. Under the existing circumstances matters could scarcely be otherwise. Two great difficulties lay in the way of most growers, viz., ignorance of foreign languages and the expensiveness of traveling, so the growers stayed at home and remained dependent on the foretaller.

In 1889 the state of things was changed. Three years before about 100 growers had met at Ollioules (Dept. du Var) and founded a com-

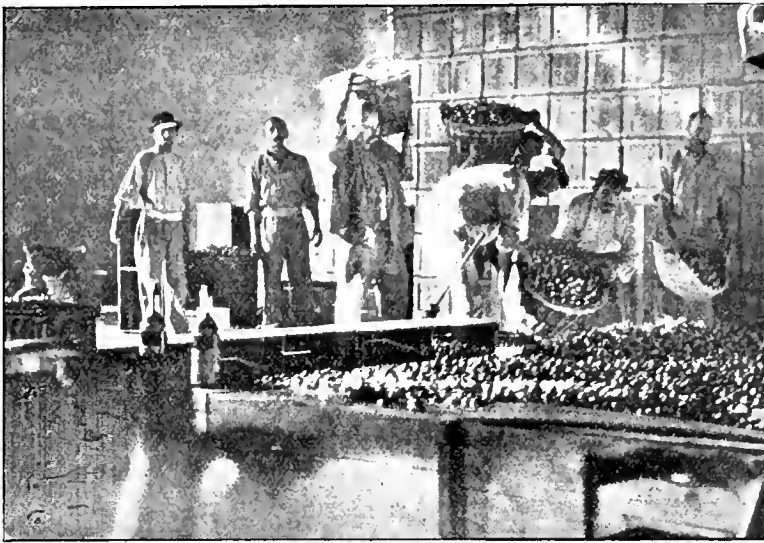
pany: Le Syndicat des Cultivateurs d'Oignons a Fleurs. The purpose of this syndicate (entering into commercial relations with customers for their Roman bulbs) soon began to be

realized, but not without great difficulties. The forestallers, not being able to gain the same profits as in former years, got the syndicate entangled in a lawsuit, which, in the



Examining the Bulbs.



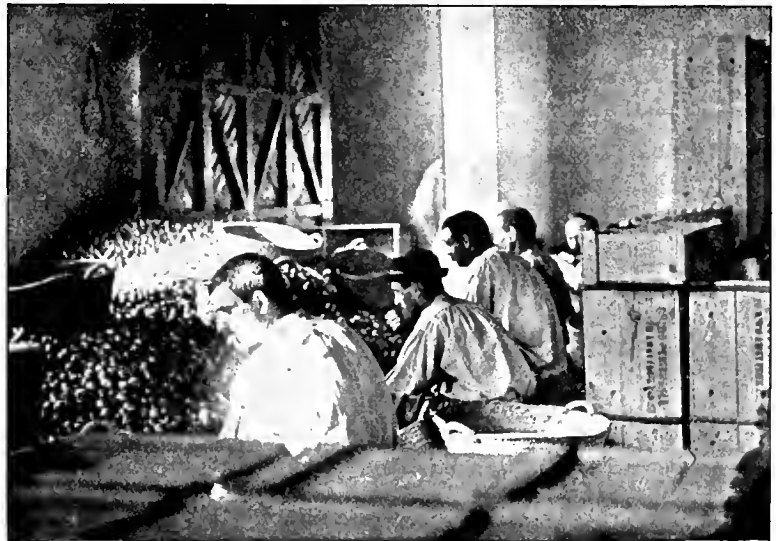


Spreading the Bulbs on Wooden Floors.

first instance, they lost; in the court of appeal however, they gained a glorious victory.

Since that time they have been steadily widening their sphere of action. Now, the syndicate consists, as stated above, of 400 members, cultivating an extent of several hundreds of hectares (3 hectares=5 acres). The board is composed as follows: A council of administration, consisting of 12 growers, and a director or manager appointed by election. Councillors are:

- Theodore Fenouillet, President.
- Alexandre Carvin, } Vice-Pres.
- Laurent Durand, }
- Edward Mercheyer, } Secretaries.
- Louis Fenouillet, }



Sorting the Bulbs.



Women Wrapping the Liliums.

- Joseph Emeric Fils, } Treasurers.
- Edward Andrieux, }
- Charles Arnand, } Assessors.
- Theodore Andrieux, }
- Marius Bonnifay, }
- Anguste Infernet, }
- Marius Emeric, }
- Gaston Lagarde, Manager.

During the management of the zealous and active Mr. G. Lagarde many improvements have been introduced, particularly referring to the treatment and the packing of Roman Hyacinths, Paper White Narcissus, etc., so that now the syndicate can offer their customers nearly full guarantee for the bulbs which are to be forwarded. In the month of June every member of the syndicate brings his whole crop to

the syndicate stores, where it is received three times a week, by a committee of 3 members, one of them being a delegate of the council of administration.

How very busy this time must be may appear from the supply of every week, being on an average 1,500,000 bulbs. On receipt these bulbs are closely examined by the manager and the above mentioned committee. Only those which are thoroughly dry, in good condition and of the required size are accepted.

Immediately after acceptance the bulbs are spread on wooden floors to prevent them from heating; but not for any longer time than is required for sorting them according to their size,



Putting the Bulbs in Cases.

or in the case of Liliums, until they have been wrapped in tissue paper to guard them from damage.

As quickly as possible, for customers in general are not always so patient as might be desired, the bulbs have to be counted and put in cases. For two years past the syndicate has practiced

existence of the syndicate only 1,500,000 bulbs were exported, this number has gradually increased, and since two years ago the syndicate unanimously appointed their sole agents the firm C. J. Speelman & Sons, wholesale growers of Dutch bulbs, the export has reached the number of



Coopering and Nailing the Cases.

a more suitable manner of packing the bulb, in consequence of which their arriving in good condition is guaranteed.

When they have been coopered, nailed up, marked and numbered, they are ready to be forwarded to their destination.

Though in the first year of the

about 4,000,000 bulbs a year, requiring the labor of some thirty men and women. Customers are found in the U. S. A. and Canada, in England, Scotland, Germany, Austria, Russia, Sweden, Norway, Denmark and Holland, and we confidently hope that the syndicate will go on prospering as they have done until now.

## Jackson & Perkins Co.

Growers of Choice Specialties for Nurserymen and Florists.....

NEWARK, NEW YORK.

ROSES, NOVELTIES, Strong, field-grown, dormant plants.....

THREE NEW RAMBLERS,  
\$1.75 per 10; \$16 per 100.

Yellow Rambler (Aglaia) The only hardy yellow climbing rose.....	Compantion roses to Crimson Rambler, similar habit of growth and manner of blooming, very vigorous; hardy.
Pink Rambler (Euphrosyne) Clear light red.....	
White Rambler (Thalia) Pure white.....	

LORD PENZANCE'S HYBRID SWEET BRIARS

\$1.75 per 10; \$15.00 per 100. Extra strong field-grown, dormant plants.

Varieties:  
Amy Robsart—lovely deep rose. Anne of Geierstein—dark crimson. Brenda—maiden's bush or peach. Flora M'Ilvor—pure white, blushed rose. Lady Penzance—(a) beautiful, soft tint of copper with a peculiar metallic lustre. Lord Penzance—(b) soft shade of fawn or ecru passing to a lovely emerald yellow. Meg Merrilees, gorgeous crimson. Rose Bradwardine—beautiful clear rose.

ROSES, COMMON SORTS.

Strong, field-grown, dormant plants, \$10 per 100

Mme. G. Bruant	Mrs. John Laing
Magna Charta	Princess Adelaide, Moss
Mme. G. Luizet	Ulrich Brunner
Mme. Plantier, \$5 per 100.	

TREE ROSES.

5 to 7 ft., extra fine, \$3.50 per 10; \$25 per 100. Crimson, Pink, Rose Red, White, Yellow.

ORNAMENTAL SHRUBS. Per 100

Deutzias, assorted, 3 to 4 ft.....	\$7.00
Exochorda grandiflora, tree-shape, 3 to 4 ft.....	15.00
Exochorda grandiflora, 2 to 3 ft., fine.....	10.00
Fringe, purple, 3 to 4 ft.....	10.00
Hydrangea Red Branched, Hydrangea Thos. Hogg, strong, field-grown, dormant plants with good crowns.....	10.00
Lilacs, new and old varieties, prices and sizes on application.....	10.00
Snowball, common, 2 to 3 ft., fine.....	15.00
Snowball, Japan, 2 to 3 ft., fine.....	15.00
Snowball, Tomentosa (V. Tomentosum), 2 to 3 ft.....	15.00
Tree Peony, Banksii, 2 yr., strong.....	30.00
Xanthoxeris Sorbifolia, a most rare and beautiful shrub.....	18.00

Complete list of unsold stock including additional Roses and Shrubs, Clematis, Ornamental Trees, Conifers, Small-Fruit Plants and Fruit Trees sent upon application. A postal card will bring it if you mention this paper.

JACKSON & PERKINS CO.  
NEWARK, NEW YORK.

THE HOME OF THE

Rhododendron  
and Azalea...

HIGHLANDS NURSERY, in the high Carolina Mountains.

Hardy American Native Trees, Shrubs and Herbaceous Perennials.

Finest stock for Park and Cemetery work, and now universally used by all leading Landscape Architects.

Rhododendrons, Kalmias, Tree Andromeda, Roses, Lilies, Ferns and Vines.

Fine stock of Hemlocks, 1 to 2 ft. Also the beautiful and rare

CAROLINA HEMLOCK  
(Tsuga Caroliniana.)

OVER 30,000 AZALEAS

Five species, heavily budded and with balls

Write for catalogue and information. Address all communications to office

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Shipments from North Carolina.

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Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a free want adv. free to be used at any time during the year.

**SITUATION WANTED**—Where first-class stock is grown. Best ret's past and present employers; 24, state wages. W. D. care W. W. Colles, Kokomo, Ind.

**SITUATION WANTED**—By an experienced gardener and florist or private or commercial place; age 33, married. Best of references. W. R. care American Florist.

**SITUATION WANTED**—By a first-class grower of roses, mums, carnations, violets, tomatoes, cucumbers and other plants. Best references; married, no children. F. P. RENTZ, Lancaster, Pa.

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Yours truly, C. W. JOHNSON.

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JOHN BREITMEYER & SONS,  
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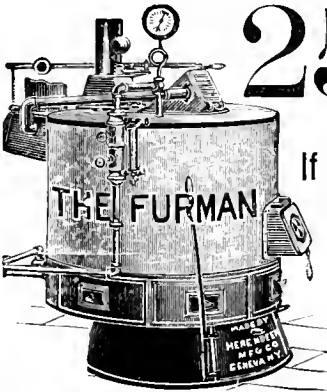
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DEAR SIR:—In reply to yours asking as to my success with your No. 16, Cerise Queen, will say that I consider it the ideal Carnation of its type, very productive, continuous, stiff stem, of medium length, and holds its color longer on the plant than any Tidal Wave ever grown. I shall plant a house of it, if I am able to procure the stock.  
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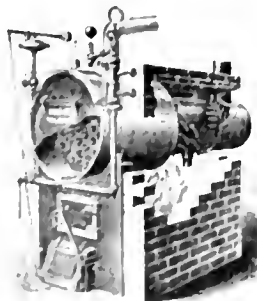
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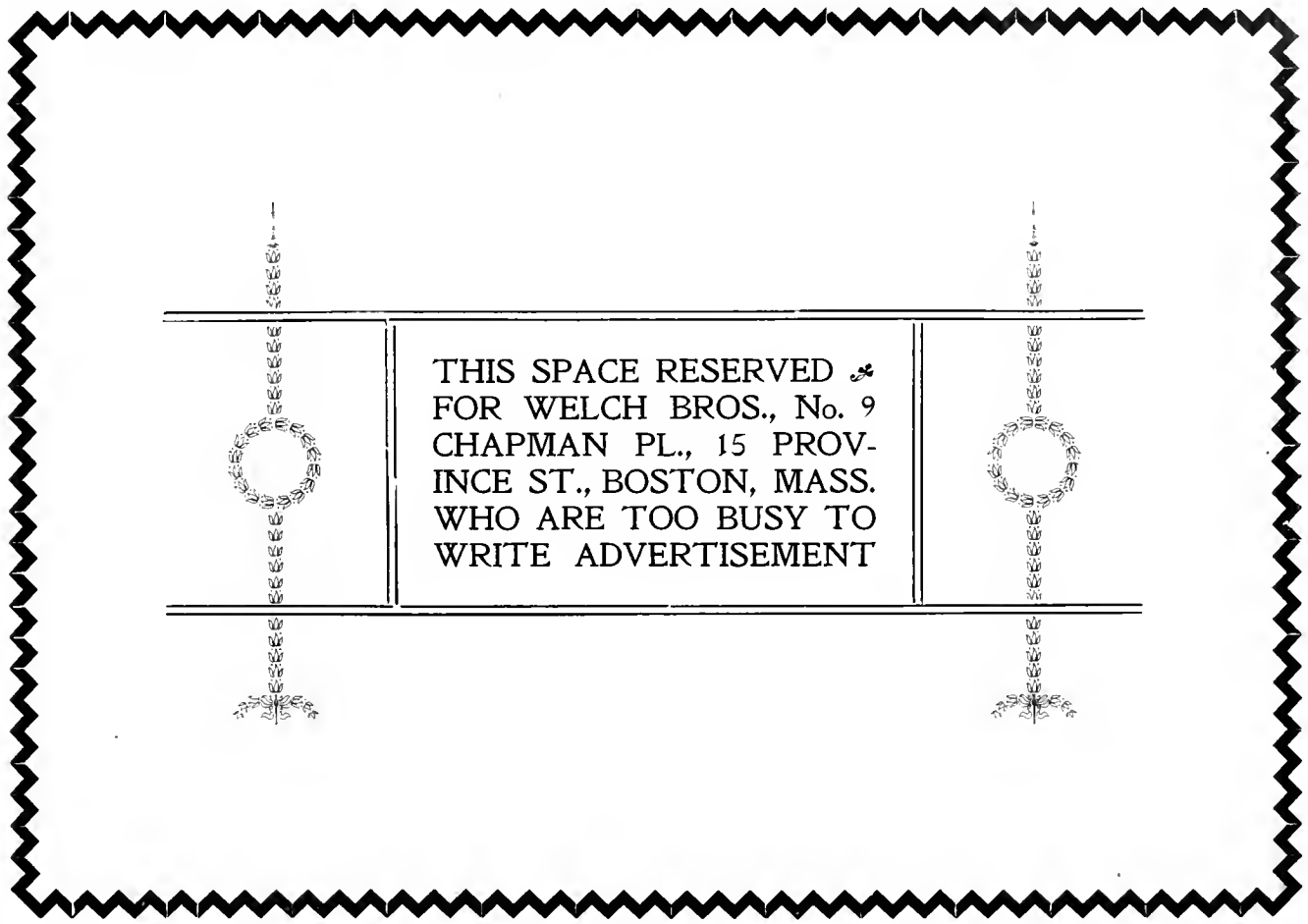
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Unusual warm and cloudy weather accompanied with unceasing rains for over a week past has played sad havoc with a great many flowers intended for Easter sales, forcing out a great many too early, thus over throwing the calculations of a great many florists for a good lot of several leading sorts of flowers; nevertheless a few florists will be right in the swim with lilies and bulbous stock generally.

Nanz & Neuner excel this spring with first-class carnations and mignonette.

Thompson & Son can pride themselves with very well grown cinerarias of an unusual good strain of the dwarf large-flowering class.

Jacob Schutz will as usual lead in quantity and quality of his bulbous stock, and a house full of Harrisii lilies will come in just right for Easter.

Chas. Reinard will have a good lot of lilies, and a splendid batch of lily of the valley for Easter.

George Shulz had this winter the best single as well as double violets, and feels justly proud of the fact.

Ed. Marret has his show house well stocked with a fine well grown lot of begonias. A bed of Bridesmaid roses in first-class condition will bring a rich harvest for Easter.

Ed. Reimers has for a year made a specialty of decorative plants, and his India rubbers, one and a half to two feet in height, well covered with grand foliage, will meet with ready sales this spring.

Haupt's Floral Bazaar, with its fine show window, shows to great advantage some good flowers from several home growers and Chicago houses.

Sam Thompson seems to monopolize the trade in cheaper work, and the opening of the American Restaurant's new building gave new testimony to that effect.

Our park commissioners had to send east this spring for a forester to teach their park superintendents and other employees how to trim and care for trees.

I believe the florists have decided to do without a spring show this year.

C. G. N.

COLLEGE OF FORESTRY.—The state of New York has appropriated \$10,000 for the establishment of a College of Forestry at Cornell University.

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Silver, Gold, White and Brown, assorted sizes:			
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### Steam and Hot Water Heating.

#### PART I.

There are comparatively few steam and hot water fitters who make a specialty of greenhouse heating, and as a consequence many fitters know little about this class of work. The florist himself is often compelled to take a hand in the fitting of his heating pipes, and not always as a matter of economy, but as a matter of necessity.

There are often many changes to be made from time to time, in the line of heating pipes, caused by extensions or additions to the houses, some slight and others quite extensive. The heating plant of a greenhouse is the most important consideration. The florist therefore should be practical in the matter of heating as well as in cultivation. He should know how to properly heat any space to any desired temperature, by the various systems in use. He should be able to run the necessary lines of pipe, make the joints, and do all the necessary work of this kind, and by having the knowledge to do all this, laboring men may be hired to execute the work.

Every greenhouse should have a good set of pipe fitter's tools, in order to be able to make necessary repairs without delay. In greenhouses of any extent it is a good policy to keep also on hand extra pipe, and a fair assortment of fittings, as well as a quantity of all necessary material used on such work and not depend on finding some special fitting, or other material that may be wanted in a hurry, at some plumbing or tin shop.

There is a great variety of pipe fittings for the various angles and positions in heating plants, and it is a proper thing to be acquainted with them, to know their

correct names and to know just where these various special pipes and fittings can be purchased.

The two special systems of greenhouse heating are steam and hot water. With the steam system of heating wrought iron pipes are alone used, while with the hot water system of heating, either wrought iron or cast iron pipes may be used. Many of the leading boiler manufacturers of this country are, of late years, giving special attention to greenhouse heating, and are producing boilers with special features for this class of work.

There are also many new arrangements of pipes and special appliances pertaining to greenhouse heating, which we propose to illustrate and explain from time to time in these columns, in a comprehensive and practical way, so that the florist who deserves to be up to date in greenhouse heating can do so. A cheap way of constructing a hot water heating plant for greenhouse work is by using old boiler tubes. There is scarcely a concern which makes wrought iron tubular boilers, that has not at all times large numbers of old tubes that have been taken from condemned boilers. Such tubes cannot be placed in new boilers again even should some of them be good, and the consequence is that they go to the scrap heap and are melted up. As such tubes are generally in long lengths, they can be used to advantage under long benches for heating coils, fitted together in the same manner as the regular cast iron greenhouse pipe, with calked rust joints. The regular greenhouse cast iron fittings will not answer to connect with the boiler tubes, but cast iron soil pipe fittings will answer for this purpose, and they can be found in any market.

To use old boiler tubes of two and a quarter or two and a half inches in diameter as heating pipes, two inch soil pipe fittings would answer, and to use tubes of three and a quarter or three and a half inch diameter, three inch soil pipe fittings would be the proper size. As the pressure of water on such plants would be very light the standard weight of fittings would do the work and at the same time be the cheapest. As there will be no threaded joints on such work, it will simply be necessary to use a pipe cutter to get the correct lengths in fitting ends of lines, and at the same time carefully ream out the ends of the tubes after they have been cut, so that the rough ends will give as little resistance to the flow of water as possible.

JAMES J. LAWLER.

#### A Novel Idea.

A clever Tremont street florist has succeeded in keeping a crowd of sightseers in front of his window by exhibiting a chip hat very artistically trimmed with violets and other natural flowers. The combination proves too much for the female heart, and as a consequence of much profit to the florist and corresponding loss to the unfortunate swain.—*Louisville Post.*

THE Central New York Horticultural Society has made arrangements to give three premiums at its exhibition next fall to the children who are able to win them. In May or June the society will distribute 1500 chrysanthemums among the local school children. The three children whose plants make the best appearance at the fall exhibition will receive the prizes.

SYCAMORE, ILL.—Elmer Boynton will build two greenhouses, each 24x100 feet.

## A CHANGE OF NAME

Don't mean a change of our policy which is and always has been that of square and honorable dealing, with promptness and dispatch. Entrust your orders with us and rest assured you get what you want. Our EASTER STOCK IS LARGE AND OF FINE QUALITY. If you want the best and expect your order filled complete, ORDER EARLY.

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6 1/2	" " " " 42-ins. " "	12.00	
6 3/4	" " " " 48-ins. " "	15.00	
7	" " " " 60-ins. " "	40.00	

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7 ft. high, 32-ins. diam. at base, tapering to point	10.00
8 ft. high, 36-ins. diam. at base, tapering to point	12.00
8 ft. high, 40 ins. diam. at base, tapering to point.	15.00

### CONICAL OR PILLAR BAYS.

9 ft. high, 36-ins. diam. at base, 12-ins. at top.	25.00
8 ft. " " " " 30-ins. " "	40.00

### STANDARD OR TREE-SHAPED BOX.

7-in. pots, 26 to 28-ins. high with 12-in. crowns. 1.00

### PYRAMIDAL-SHAPED BOX.

9-in. pots, 32 to 36-ins. high, 15-in. diam. at base, tapering to a point 2.50

### CIBOTIUM SCHIEDEI.

Undoubtedly the finest of all Tree Ferns, and while it has a most delicate appearance, stands better than any other. Possesses a grace found in no other plant and used extensively by eastern decorators. Fine plants, 7-in. pots \$2.50 each, 8-in. pots, \$3.50 each.

### ARECA LUTESCENS.

Inch. pots.	Height.	Each.	Doz.
6	Very bushy 28 to 30 ins.	\$1.00	\$12.00
7	" " " " 32 to 36 "	1.50	18.00
8	" " " " 36 to 42 "	2.50	30.00
8	" " " " 42 to 48 "	3.00	36.00
9	Heavy single plants 48 to 60 "	6.00	

### COCOS WEDDELIANA.

Inch. pots.	Height.	Per doz.	Per 100
3	8 to 10 ins.	\$2.50	\$20.00
3	10 to 12 "	3.00	25.00
4	15 "	5.00	40.00

We also offer a limited number of specimen plants in 8-in. pots, 3 to 3 1/2 ft. high, with 8 to 9 leaves, \$6.00 each.



STANDARD BAY.

### LATANIA BORBONICA.

4-in. pots, 4 to 5 leaves, an excellent lot of exceptional value \$3 per doz., \$25 per 100, \$225 per 1000; 5-in. pots, 5 to 6 leaves, 18 to 24-in. high. We have an immense stock of this fine size for retailing \$5 per doz., \$40 per 100; 6-in. pots 5 to 6 leaves, 18 to 20-ins. high, \$9 per doz., \$75 per 100; 7-in. pots, 6 leaves, 24-in. high, \$12 per doz., \$100 per 100.

### KENTIA BELMOREANA.

Inch. pots.	Leaves.	Height.	Each.	Dozen
4	5 to 6	15 to 18 ins.	\$ 0.50	\$ 6.00
6	6	24 to 30 "	1.75	21.00
6	6	30 "	2.00	24.00
7	6 to 7	32 to 36 "	2.25	27.00
8	6 to 7	36 to 42 "	4.00	
8	7	42 to 48 "	5.00	
9	6 to 7	48 to 54 "	7.50	
10	6 to 7	54 "	10.00	
12	7 to 8	7 feet	\$35.00 to \$50.00	
16-in. tubs	8 to 9	9 feet	75.00 to 100.00	

### KENTIA BELMOREANA—Made-up Plants.

7-in. pots, 4 plants in a pot, center plant about 30 ins. high, others about 18 ins. high, \$3.50 each.

9-in. pots, 4 plants in a pot, center plant about 36 ins. high, others about 20 ins. high, \$5.00 each.

9-in. pots, 4 plants in a pot, center plant about 4 feet high, others about 2 feet high, \$10.00 each.

### KENTIA FORSTERIANA.

Inch. pots.	Leaves.	Height.	Each.	Dozen
6	6	30 to 36 ins.	\$1.50	\$18.00
7	6	36 "	2.00	24.00
8	6	42 "	3.50	
9	6	48 "	6.00	
9	6	52 "	7.50	
10	6	60 "	10.00	
13-in. tubs.	7	6 feet	25.00	
12	"	6 "	\$35.00 to \$50.00	
14	"	7 to 8 "	35.00 to 50.00	
16	"	10 "	75.00 to 100.00	

### KENTIA FORSTERIANA—Made-up Plants.

8-in. pots, 3 plants of equal height, from 36 to 42 inches high, in a pot, \$3.50 each.

10-in. pots, 4 plants in pot, center plant 5 feet high, others 2 feet high, \$10.00 each.

12-in. pots, 5 plants in pot, center plant 6 feet high, others 2 1/2 feet high, \$25.00 each.

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THE AMERICAN FLORIST'S

# DIRECTORY

of Florists, Seedsmen and Nurserymen in the United States and Canada is now in the press. PRICE \$2.00.

Harrisburg, Pa.

The gloomy weather of last week has decreased business but we should not complain as this winter in every respect has been more satisfactory than last.

The Bermuda lilies look very promising, but owing to the disease with which so many bulbs have been affected, there will be a considerable loss. I have tried the bulbs in four different ways. First, by selecting loam which had not been used for a number of years, without manure of any kind. Second, by potting them in three different sized pots 4, 5 and 6-inch. Third, by potting one-half of the number outside in a shady place, and the other half in a coal house during the summer. Fourth, by keeping one part growing right along, while the other part received regular treatment.

I find that those which received the loam without manure, and were placed outside in 5 and 6-inch pots, and kept there until quite cold, then removed into the house and allowed to grow right along showed less disease and gave better results; while the others that were given regular treatment were one-half diseased.

I do believe that the treatment mentioned above will ripen the bulbs the disease being caused by them being shipped when too green.

I will be glad to hear of the trials and results of other florists.

Our local florists at present are kept very busy. The old reliable establishment of the Joseph Schmidt is crowded with funeral and decorating work, and has been given large orders for the holidays.

The Melrose Flower Co. is doing a large business, as is shown by the orders given by it to the Paxton Greenhouses and other wholesale establishments.

C. E. T.

**ASHES CHEAP.**  
ALSO PURE GROUND BONE.  
Write for prices.  
GEORGE STEVENS, Peterborough, Ont.

COMPLETE LINE OF SUPPLIES  
WIRE WORK  
WE MAKE IT  
IMPORTERS OF BULBS  
PHONE 1273  
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ALWAYS ON HAND FINE STOCK CUT FLOWERS  
ELLIS & POLLWORTH  
MILWAUKEE WIS.

Wholesale Flower Markets

CINCINNATI, March 31.

Roses, Beauties select	50.00@40.00
"    medium	10.00@20.00
"    Brides	4.00@5.00
"    Bridesmaids	4.00@5.00
"    Meteors	5.00@6.00
"    Perles	4.00
Carnations	1.50
"    fancy	2.00@3.00
Lily of the valley	3.00
Romans	2.00
Narcissus	3.00
Daffodils	3.00
Violets	.50
Harrill	12.50
Callas	8.00@10.00
Tulips	3.00
Smilax	12.50
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, March 31.

Roses, Beauties	2.50@35.00
"    Meteors	1.00@6.00
"    Brides, Bridesmaids	2.00@6.00
"    Perles	1.00@3.00
"    Wootton	1.00@3.00
"    La France	2.00@6.00
"    Kaiserlin	2.00@6.00
"    Carnot	1.00@6.00
Carnations	1.00@3.00
Violets, California	.40
Lily of the valley	2.00
Harrill	10.00@12.00
Callas	8.00@10.00
Tulips	3.00@5.00
Narcissus, Romans	1.00@2.00
Smilax	10.00@15.00
Freesia	2.00@2.50

MILWAUKEE, April 1.

Roses, Beauties, per dozen	1.00@3.00
"    Brides, Bridesmaids	3.00@6.00
"    Perle, Belle	2.00@5.00
"    Meteors	3.00@6.00
Carnations	1.00@2.00
Violets	.50@.75
Romans	2.00@3.00
Lily of the valley	2.00@3.00
Freesia	2.00@3.00
Tulips, Hyacinths	2.00@3.00
Von Slons, Jonquills	2.00@3.00
Callas, Harrill	8.00@10.00
Smilax	15.00

BUFFALO, March 31.

Roses, Beauties	10.00@50.00
"    Brides, Bridesmaids, Meteors	8.00@12.00
"    Perles	5.00@8.00
"    Niphotos	5.00@5.00
"    Kaiserlin, Mermets	8.00@12.00
Carnations extra	3.00@4.00
"    ordinary	2.50@3.00
Lily of the valley	3.00@4.00
Violets	.75@1.00
Romans	3.00@6.00
Harrill	10.00@15.00
Smilax	15.00@20.00
Adiantum	1.25@1.50
Asparagus	50.00@75.00

Asparagus Plumosus Nannus.

Strings 8 to 10 feet long,  
50 CENTS.

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ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

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Place your order now for Easter delivery.

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 Prompt attention to shipping orders.

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 Wholesale Cut Flowers  
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 ROOTED GARNATION CUTTINGS  
 Albertina and Bridesmaid, \$2.00 per 100;  
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 Ivory, Lizzie Gilbert, Fred Dorner and  
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**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
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 WHOLESALE GROWERS OF  
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 600,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of  
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<b>ROOTED ROSE CUTTINGS</b>	BRIDE	Per 100	Per 1000
Plants and cuttings sent by express at plant rate. (20 per cent. less than Milwaukee rates.)	BRIDESMAID	\$1.50	\$12.50
	PERLE	1.50	12.50
	METEOR	1.50	12.50
	KAISERIN	1.50	12.50
	BELLE SIEBRECHT	1.50	12.50

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**LOOK FOR THE AD. OF THE**  
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 Roses, Beauties ..... per doz. 1.00@5.00  
 " Brides ..... 4.00@ 6.00  
 " Meteors, Bridesmaids, Kaiserin ..... 3.00@ 6.00  
 " Perle, Gontiers ..... 2.00@ 5.00  
 " La France, Testout ..... 6.00@10.00  
 Carnations, common ..... 1.50@ 3.00  
 fancy ..... 3.00@ 6.00  
 Violets ..... 1.00@ 1.00  
 Narcissus, Romans ..... 2.00@ 4.00  
 Callas ..... 8.00@10.00  
 Hartsell ..... 8.00@10.00  
 Lily of the valley ..... 2.00@ 3.00  
 Tulips ..... 1.00@ 4.00  
 Von Sions ..... 2.00  
 Hyacinths ..... 3.00@ 8.00  
 Adiantum ..... 1.00  
 Smilax ..... 12.00@15.00  
 Asparagus ..... 50.00@75.00

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 Fine Stock a Specialty. CHICAGO.

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 DON'T FORGET that we are at the old number,  
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 Write for special quotations on large orders.  
**THE AMERICAN FLORIST'S**  
**COLOR CHART**  
 is now accepted as the standard in preparing color  
 descriptions, by many foreign houses as  
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 PRICE 15 CENTS POSTPAID.  
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 Open for Cut Flower Sales at 6 o'clock  
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**ROSE PLANTS**  
 out of 2 1/2-inch pots. per 100 per 1000

American Beauty	.....	\$5.00	\$45.00
Meteor	.....	3.00	25.00
Perle	.....	3.00	25.00
Bride	.....	2.50	22.50
Bridesmaid	.....	2.50	22.50
La France	.....	2.50	22.50
Kaiserin	.....	2.50	22.50
Belle Siebrecht	.....	2.50	22.50
Smilax plants	.....	2.00	15.00

**ROOTED GARNATION CUTTINGS.**

<b>JUBILEE</b>	.....	2.00	15.00
Win Scott	.....	1.00	7.50
Nancy Hanks	.....	1.00	7.50
Blind Wave	.....	1.00	7.50
Portia	.....	1.00	7.50
Lizzie McGowan	.....	1.10	7.50
GoldBlush	.....	1.00	7.50
Mrs. Thompson	.....	1.00	7.50
Daybreak	.....	1.50	12.50
Erwin Woelher	.....	1.50	12.50
Meteor	.....	1.50	12.50
Lizzie Gilbert	.....	1.50	12.50
Harrison's White	.....	1.50	12.50
Bridesmaid	.....	1.50	12.50
Niven	.....	3.00	
Flora Hill	.....	4.00	35.00

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NEW YORK, March 30

Roses, Beauties.....	6.00@25.00
" Brides, Bridesmaids.....	2.00@ 6.00
" Testout, Carnot.....	3.00@ 8.00
" Morgan, Meteor.....	2.00@ 6.00
Carnations.....	1.00@ 1.50
fancy.....	1.50@ 3.00
Lily of the valley.....	1.00@ 2.00
Mignonette.....	2.00@ 4.00
Violets.....	.15@ .40
Harrissl, Callas.....	4.00@ 5.00
Daffodils, Tulips.....	1.50@ 2.00

BOSTON, March 30

Roses Beauties.....	10.00@35.00
" Brunners.....	6.00@25.00
" Perle, Niphotos.....	2.00@ 4.00
" Brides, Bridesmaids, Carnot.....	2.00@ 8.00
" Morgans, Meteor.....	4.00@ 6.00
Carnations.....	.75@ 3.00
Lily of the valley, Daffodils.....	1.00@ 2.00
Violets.....	.25@ .40
Harrissl, Calla.....	5.00@ 8.00
Tulips.....	1.50@ 3.00

PHILADELPHIA March 30

Roses, Beauties select, per dozen.....	3.00
" Brunners.....	6.00@15.00
" Teas.....	4.00@12.00
Carnations.....	1.00@ 2.00
fancy.....	2.00@ 3.00
Lily of the valley.....	3.00@ 4.00
Violets.....	.50@ .75
Narcissus.....	3.00@ 4.00
Hyacinths.....	2.00@ 3.00
Harrissl.....	8.00@10.00
Sweet peas.....	1.00@ 2.00
Smilax.....	12.00@15.00

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 49 WEST 28th STREET,  
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**SPECIAL EXTRA STOCK OF**  
 AM. BEAUTY, METEOR,  
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**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

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 Will find a good market and good  
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 WHITE VIOLETS, finest quality.  
 EXTRA ROSES and other desirable specialties.  
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**HARRISII LILIES** 25,000 for Easter. We have the largest and finest stock in the West. Our long experience in handling these lilies enables us to deliver them in the best condition. We guarantee them to arrive without bruising if shipped in boxes of 75 or 100, direct from our greenhouses without repacking. Price \$12.00 per 100.

**AM. BEAUTIES** 50,000 plants to cut from and now in full crop.

**TEA ROSES** A large stock such as BRIDES, BRIDESMAIDS, METEORS, PERLES, CARNOTS and KAISERIN, all of our own growing.

**FANCY CARNATIONS** as well as good common sorts.

**LILY OF THE VALLEY** 15,000 extra choice cold storage pips at three cents. This is fresh cut every day.

**TULIPS** Yellow Prince, Courless, Cardinal, Murillo, Kaiserskroon and La Reine. Price 4 cents.

**DAFFODILS** Double Von Sions, 10,000 fine large flowers. Price \$2 to \$3 per hundred.

**ASPARAGUS** 3000 very fine long strings. Price 30 cents per string.

**SMILAX** is very scarce, we shall have a limited quantity at \$2.50 to \$3.00 per dozen.

**SWEET PEAS** Blanche Ferry at \$1.50 per hundred.

**MARGUERITES** A large quantity, 50 cents per hundred.

**DUTCH HYACINTHS** Pink and light blue, \$4 to \$6 per hundred.

### ALL THE ABOVE STOCK IS OUR OWN GROWTH

and we guarantee it fresh and good quality.\*\*\*

Write us for our Florists Price List issued every week.

*Rooted Cuttings...*

<b>ROSES</b>	BRIDES	\$1.50	Per 100
	BRIDESMAIDS		
	METEOR		
<b>CARNATIONS</b>	TRIUMPH	Per 100	Per 1000
	DAYBREAK	\$3.00	\$25.00
	WM. SCOTT	1.50	12.50
	HARRISON'S White	1.00	7.50
	MINNIE COOK	2.00	
	ROSE COOK	1.50	12.50
	ROSE QUEEN	1.50	12.50

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# Growers in America

Of Cut Flowers Under Glass. 600,000  
 Square Feet of Glass in Roses, Carnations  
 and Lilies. ❁ ❁ ❁ ❁  
 Try Our Lilies. ❁ Special rates on large lots.

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 WILL SAVE YOU THE MIDDLE-  
 MAN'S PROFITS. ❁ ❁ ❁ ❁

# Reinberg Brothers,

51 Wabash Avenue,  
 CHICAGO.

# KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies

88 Wabash Avenue, Chicago, Illinois

Long Dist. Tel. Express 466

OUR  
**SPECIALTIES:**  
For Easter Trade

**HARRISII, TULIPS, DAFFODILS,  
VALLEY, VIOLETS.....**  
And Extra Choice Bulb Stock of All Kinds

**EASTER PRICE LIST**  
(SUBJECT TO CHANGE WITHOUT NOTICE)

P. AND D. AT COST.	PER 100
Meteors, extra select.....	\$5.00 to \$7.00
Maids and Brides, extra select.	5.00 to 7.00
Meteors, Maids and Brides, good average .....	4.00 to 6.00
Perles, extra select .....	4.00 to 6.00
Roses, our selection.....	4.00
Harrisii.....	8.00 to 15.00
Callas.....	8.00 to 12.50
Valley, the best.....	3.00 to 4.00
Violets .....	.75 to 1.00
Marguerites, white .....	.50 to .60
Marguerites, yellow.....	1.00
Carnations, extra select .....	3.00 to 4.00
Carnations, white .....	4.00 to 5.00
Carnations, good average .....	2.00 to 4.00
Tulips, single, all colors .....	3.00 to 4.00
Tulips, double, fine.....	3.00 to 5.00
Tulips Klehm's Novelty, light pink.....	3.00 to 4.00
Daffodils .....	2.00 to 4.00
Narcissus .....	1.00 to 2.00
Adiantum .....	1.00
Sunlax - search.....	15.00 to 20.00
Asparagus, per string, 50 to 65	
Galax, per 1000 \$1.50	20
Common Ferns - per 1000 \$2.00	25
Common Ferns, 500 at 1000 rate.	



**HARRISII** IN GREAT NUMBERS AT PRICES TO SUIT ALL.....  
**TULIPS SINGLE, All Colors.**

Small and Large Orders Booked on Bulb Stock.

**TULIPS DOUBLE, Very Fine.  
VALLEY THE VERY BEST.  
TULIPS Klehm's Novelty, Light pink.**

TRY THEM. HARRISII for all.  
Special Line of Bulb Stock for Easter.  
Book Orders Early.

**VIOLETS** LADY CAMPBELL, and all others, of extra quality and in quantity.  
**CARNATIONS** WE ARE HEADQUARTERS.

Book Orders Early as they are filled in rotation.  
ORDER OF US.  
Carnation Rooted Cuttings of all kinds.

**DAFFODILS, NARCISSUS, Etc.**

Let us have your orders, we will fill them.  
The Values we give are our Best Advertisements.  
All Flowers in season at Lowest Market Rates.  
Prices given are for good stock specially selected, and inferior quality will be charged according to value.

Jobbers in all Kinds of Desirable Florists' Supplies.

WRITE FOR CATALOGUE AND PRICE LISTS  
Store Open until 6:30 P.M. Sundays and Holidays Noon Only.



EVERYTHING YOU NEED —



# For Easter

American Beauties, Roses, Carnations,  
Harrisii, Tulips, Etc., Etc. \* \* \* \* \*

ALL OUR OWN GROWING.

## Rogers Park Floral Co.

51 and 53 Wabash Ave., CHICAGO.

# For Easter

## Asparagus

## Plumosus

OUR NEW CROP \* \* \* \*

Is in fine condition. Just what you need for Easter Decorating. Send in your orders, large or small, and they will be promptly filled as our supply is abundant. \* \* \* \* \*

10,000 STRINGS ON HAND

CUT STRINGS  
10 Ft. Long,  
50 Cents —

## Nanus....

C. O. D. to Unknown Parties.\*

W. H. Elliott, = Brighton, Mass.

# ORDER QUICK

So As to Get



## GOOD CUT FLOWERS

# FOR EASTER SALES

*Baroness  
Rothschild Roses*

In 6-inch Pots, \$ 9.00 per dozen.  
In 8-inch Pots, \$12.00 per dozen.

PRICE LIST  
ON APPLICATION

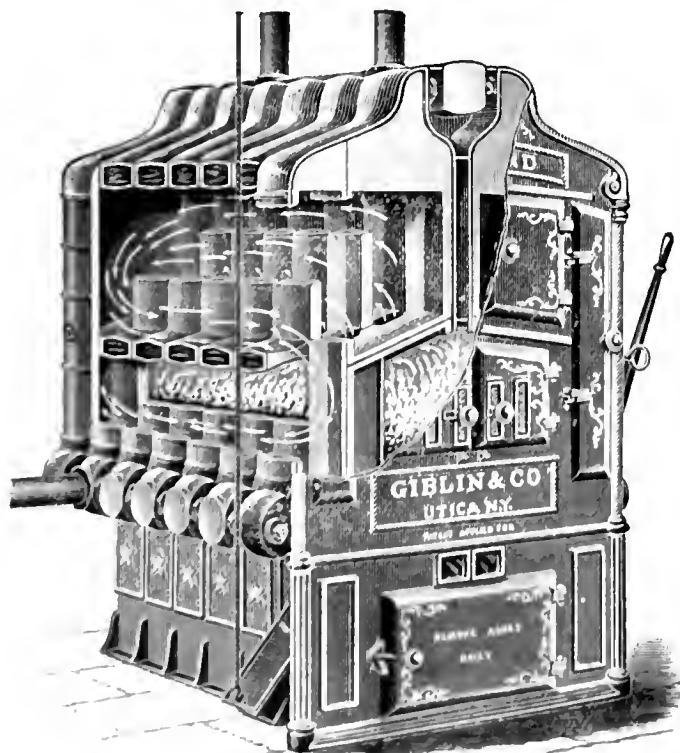
## Illinois Cut Flower Co.

51 and 53 Wabash Ave.

Chicago

J. B. DEAMUD

# PROFIT IS CERTAIN...



in the prudent and thorough heating of a greenhouse as much as in large sales of stock. If a florist is burdened by an unnecessary annual tax of from

## \$50 TO \$100

for fuel and extra labor he must work much harder in order to make up this unnecessary tax out of the profits of his business. We know from our past experience that there is no unnecessary tax for fuel and labor when our boilers are used, because they are made after careful examination of the reasons why other boilers have failed and their construction avoids the defects shown. No one has bought

### OUR BOILERS

that ever regretted it and thousands have bought and look back at the cost as the best investment they ever made

### SEE WHAT

these florists say:

S. L. BRONSON, New Haven, Conn., Jan. 4th, 1898, says: I have in my greenhouse one of your No. 50 Standard Sectional Hot Water Boilers, bought June 28th, 1897. I find that its work is truly excellent and think it is the best heater I ever had. I can find no fault with it in any particular.

GEORGE BOYCE, Florist, Utica, N. Y., Jan. 31st, 1898, says: I have thoroughly tested the No. 50 Standard Sectional Hot Water Boiler bought of you last fall and it is a pronounced success. It is very easy to raise the water to a high temperature and keep it so. The boiler is easy to operate and I can arrange the fire at 10 o'clock at night and find it in good condition at 7 o'clock in the morning, and by the use of drafts quickly obtain a new, bright fire for the day. The arrangements for cleaning are admirable as every part of the boiler is accessible to the light and cleaning brush. You have certainly secured the right construction for a first-class greenhouse heater, and I can heartily recommend it to all florists.

### OUR GREENHOUSE CATALOGUE

is free, and we are in business to give information about our boilers and heating greenhouses, and solicit correspondence.

### WE CAN MAKE

prices delivered at any station, so that a florist knows exactly what the cost will be of a boiler selected.

# GIBLIN & CO., Utica, N. Y.

## Pittsburg.

There is no improvement to report in the trade situation. Business has been very quiet during the past week, but all are looking forward to a good Easter business notwithstanding the Spanish war outlook, and many believe that even if hostilities should occur it will make comparatively small difference now that Easter is so near at hand.

The Pittsburg and Allegheny Florists' and Gardeners' Club held their regular meeting, which was very well attended, on Thursday night, the 24th. "Carnations" was the subject for discussion, and according to previous arrangement a very fine exhibit was made, the "question box" forming the medium for remarks, as there were no set essays or speeches delivered. Mr. Gus Ludwig exhibited from Messrs. H. Weber & Son, Oakland, Md., a fine collection including Daybreak, Buttercup, Mrs. Geo. M. Bradt, extra fine Della Fox, Flora Hill and Eldorado, also a remarkably fine bunch of the Mrs. Robert Garrett rose; from John Murchie Sharon, marguerites, white and yellow, very large blooms with stems fifteen inches in length; orchids, Dendrobium fimbriatum, and seedling carnations, a pink from Rose Queen and Peachblow, a white from Storm King and McGowan, and a dark red which has been recently named Walter Harvey after one of our oldest floriculturists in this vicinity. These seedlings were commended by everyone. From Mr. Chas. Hoffmyer a fine lot of Allium Neapolitanum and roses, Bride and Bridesmaid, with stems over thirty inches long—foliage and blooms first-class. Mr. Fred Burke exhibited Buttercup, Mrs. Geo. M. Bradt and Hector, which were fully up to the standard for quality.

Mr. E. C. Ludwig had a fine collection on exhibition from Mr. H. D. Roher, Lancaster, Ohio, Albertini, stems thirty inches in length, blooms very fine; from Ohl Bros., roses and Daybreak and Flora Hill carnations.

The discussion as to how to grow carnations successfully was participated in by nearly all the growers present, and all left feeling satisfied that with matters of importance coming before them the waning interest in the club would be stimulated and revived in a marked degree.

Mr. James Dell has accepted a position as manager for Messrs. J. F. Gibbs & Son at their place, 5515 Fifth avenue, E. E. REGIA.

## A. L. RANDALL

...WHOLESALE...

## Cut Flowers



DON'T FORGET

THAT WE

HAVE MOVED

\*TO\*

4 Washington St.  
CHICAGO

Get Easter orders in early as possible and get the best.\*\*\*

Will be well supplied with the finest *Harrisii* in the city. Also Fine \*\**Bulb Stock, Roses, Carnations, Etc.*JAMES M. KING,  
Wholesale FloristA FULL LINE OF CHOICE FLOWERS  
FOR EASTER.

49 West 29th Street, NEW YORK.

## White Violets a Specialty

Telephone 1675 38th Street.

## 50,000 MARIE LOUISE RUNNERS

at \$4.00 per 1000, 60c per 100. Cash with order.

Want to exchange above also for young American Beauties, Wootton and Meteor Roses, as well as all the newer Carnations.

HILLSDALE FLORAL PARK, Hillsdale, Mich.

## PINEHURST VIOLET.

Hardest form of the English Violet. Flowers very large, single, long-stemmed, very fragrant, brilliant shade. Blooms continuously all winter in the open or cold frame. Large, dark green foliage. Unstripped as all the year round ground cover. Disease unknown. 100 for \$4, 1000 for \$30; cash with order. Ask for interesting spring price list of shrubs, herbaceous plants and seeds.

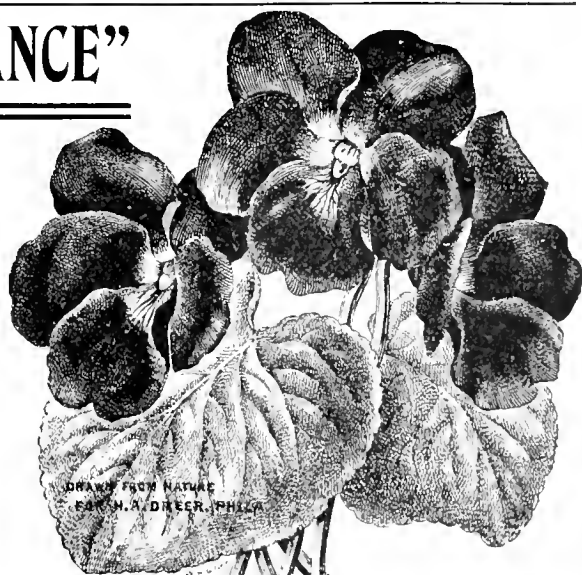
PINEHURST NURSERIES, Pinehurst, N. C.

## GRAND NEW VIOLET "LA FRANCE"

STRONG VIGOROUS GROWER  
EXTRA FREE FLOWERING  
\*\*\*RICHEST COLOR

OF the many new Violets introduced in the past few years this, the latest introduction of the foremost French specialist, is unquestionably the BEST. It has been thoroughly tested by Mr. Supiot, the Violet expert, who pronounces it "perfect," and flowers which we have exhibited during the past few weeks have been much admired. In vigor of growth, freedom of bloom and in size and coloring, it is superior to all existing sorts, and will soon supersede them. Only a limited stock will be offered this season, and orders will be filled in strict rotation.

Price, \$1.25 per dozen; \$10.00 per 100.

HENRY A. DREER, 714 Chestnut Street,  
PHILADELPHIA, PA.

# DID YOU EVER



Look for flowers that never came? They'll come all right if you order of us—good stock, too—packed right—and the order complete. . . . .



THIS IS US.

### PRICE LIST TO TAKE EFFECT APRIL 6

	Per Dozen.	Per 100.
AM. BEAUTIES, Short.....	\$ 1 00 to \$ 2 00	
AM. BEAUTIES, Long.....	3 00	5 00
BRIDES.....	\$ 5 00	\$ 8 00
BRIDESMAID.....	5 00	8 00
KAISERIN.....	5 00	8 00
METEOR.....	5 00	8 00
PERLES.....	4 00	6 00
WOOTTON.....	4 00	6 00
CARNATIONS, common.....	2 00	3 00
CARNATIONS, fancy.....	3 00	5 00
HARRISH.....	10 00	15 00
CALLAS.....	10 00	12 50
VALLEY and ROMANS.....	2 00	3 00
NARCISSUS.....	3 00	4 00
VIOLETS.....	75	1 00
DAFODILES.....	4 00	3 00
TULIPS.....	4 00	3 00
SMILAX.....	15 00	20 00
ASPARAGUS.....	.50 to .65 per string	
ADIANTUMS.....		1 00
FERNS.....	\$ 2 00 per thousand	

## Lynch

 19-21 Randolph St. CHICAGO

Only a few more thousand left of

THE GREAT

# Scarlet

# Wellesley

ORDER NOW.

Recognized as the best all-round Carnation of its color yet produced.

Rooted Cuttings....

\* \$1.00 per dozen  
\$10.00 per hundred  
\$75.00 per thousand

\* Cash with order or check for 10 days

## J. TAILBY & SON

WELLESLEY, MASS.

WILLIAM E. DOYLE,

FLORIST

43 TREMONT STREET, BOSTON.

CONSERVATORIES

1509 CAMBRIDGE STREET, CAMBRIDGE, FORMERLY HOVEY'S.

CONNECTED BY TELEPHONE

*Boston, Feb 14<sup>th</sup> 1898*

*Jos. Tailby & Son  
Dear Sir*

*I have given your Pink  
Wellesley a good fair trial for the past  
few months and I am perfectly  
satisfied that it is one of not the  
best Scarlet Pinks I have handled  
& consider it one of the most valuable  
pinks I am receiving*

*Yours Truly  
Wm. E. Doyle*

A CORNER IN STOCK IS

# One Way to Make Money.



## J. K. ALLEN,

57 W. 28th St., NEW YORK.

NEXT TO CORNER OF SIXTH AVENUE....

Telephone 382 38th St.

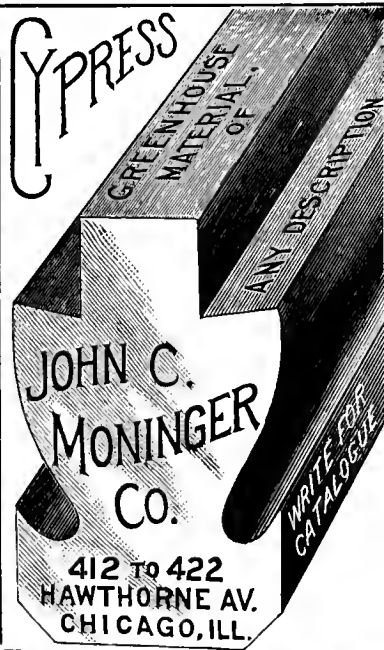
## J. K. ALLEN...

Is CLOSE TO THE CORNER and money is made every day by patronizing this "old and reliable," established not for the purpose of "fleecing," but to provide

### A Handy Market.....

Where grower and consumer receive equal consideration. The stock offered for Easter comprises the full list of desirable and seasonable Cut Flowers in grades and prices to fit all pocketbooks.

...COME AND SEE US...



We carry constantly a Large and Complete Stock of.....

# Clear Louisiana Cypress Lumber

And can fill all orders promptly.

## JOHN C. MONINGER CO.

OFFICE AND FACTORY:  
410 to 422 Hawthorne Avenue.

Chicago.

## Geraniums . .

We have several thousand good bedding varieties, comprising all the principal colors, mostly double, rooted cuttings, mixed, at \$1.00 per 100.

Cash with Order. **H. B. WEAVER & BRO.,** WHEATLAND MILLS, Lanc. Co., Pa. Money order office, Lancaster, Pa.

## Plants for Easter

As Lilies, Azaleas, Roses in pots, Genistas, Callas, Spiraea, Dentzias, Hyacinths, Tulips, Pelargoniums, Geraniums, Palms, etc. For sale by

**AUGUST DRESEL,** 17 West Belmont Ave., CHICAGO.

## PANSIES

Large plants, transplanted, field grown, in large variety of colors, in bud or bloom.

\$1.00 per 100; \$10.00 per 1000.

**MIST** (Babies' Breath.) Blooms from July to October. Fine white, airy flowers, nice for bouquets. \$1.00 per doz., clumps \$4.00 to \$8.00 per 100, according to size. Phlox, Hardy Asters, Funkia, Myosotis, Veronica, etc., at lowest prices.

**W. C. JENNISON,** Natick, Mass.

## EASTER SPECIALTIES

### HARRISII LILIES

We shall have in a fine lot of Harrisii Lilies, grown cold, and large flowers. All orders of 100 or more will be sorted and packed at the greenhouse, and will not be repacked in the city.

### ASPARAGUS

We are cutting fine long asparagus at 50¢ per string.

### SMILAX

We are the largest growers of smilax in the west, having five houses devoted to it, and we will be able to cut a large supply for our Easter trade.

### BEAUTIES

Our Beauties are coming in fine shape, and we will have a large crop in for Easter.

### TEA ROSES

Such as Brides, Maids, Woottons, Meteors, Perles and Sunsets, are looking especially fine, and there will be a large crop in for Easter.

### CARNATIONS

Our carnations never looked better and we will have in a good supply for Easter.

### ADIANTUM

We have been able to supply the demand for adiantum this winter, and shall be able to fill an increased demand for Easter.

### SWEET PEAS

Our sweet peas are looking fine, and we are in hopes to have a good supply for Easter.

### TULIPS

### DAFFODILS

### MIGNONETTE

### FORGET-ME-NOT

All reasonable flowers at the lowest market price. We can also supply you with **THE KLEHM NOVELTY TULIPS** at their price.

### VIOLETS

### LILY-OF-THE-VALLEY

### DUTCH HYACINTHS

**BUY YOUR FLOWERS  
DIRECT FROM THE GROWER**

# A. G. PRINCE & CO.

WHOLESALE

**CUT FLOWERS AND  
SUPPLIES**

**88-90 WABASH AVENUE,**

ELEVATOR, 15 WASHINGTON STREET  
TELEPHONE MAIN 3208

AGENT FOR

**HINSDALE ROSE CO.**

**===CHICAGO===**

RESIDENCE PHONE DOWNERS GROVE 322

**Our Easter Price List**

Will be issued April 2d, if you do not receive one let us know at once.

# Wm. Hagemann

WHOLESALE  
IMPORTING.  
JOBBER OF

# BULBS

SOLE REPRESENTATIVE IN AMERICA OF

**E. A. GRIMM & CO., Hamburg, "Lily of the Valley."**

**KRUYFF & CO., Sassenheim, Holland, "Dutch Bulbs."**

**CLARENCE PENNISTON, Bermuda, "Lilium Harrisii."**

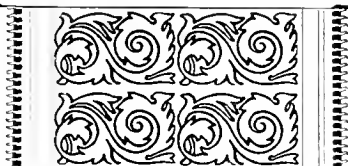
**L. BREMOND FILS, Ollioules, "Roman Hyacinths, &c."**

N. B. Case lots and upwards only supplied. We have no facilities for breaking packages.

No. 28 South Third St., = Philadelphia.

Established 1886.

All ready for  
the Easter Rush

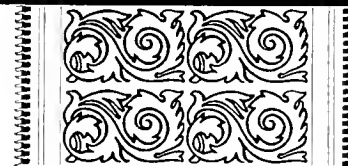


The busiest establishment  
on busy 28th Street

**WAR OR NO WAR**  
**JOHN I. RAYNOR**

OFFERS A FULL LINE OF  
**EASTER CUT FLOWERS.**

ORDERS EXECUTED  
CAREFULLY AND SHIPPED  
ON TIME.



ORDER BOOK NOW OPEN!  
SPEAK UP.

**ROSES—ROSES—ROSES**

In large or small quantities. American Beauty in all grades;  
Bridesmaid, Bride and Meteor.

**LILIES—LILIES—LILIES**

Shipped, if desired, in original packages from the greenhouses.

**CARNATIONS**

Standard varieties in prize  
winning quality.

**TULIPS**

All colors. Lily-of-the-Valley, Daffodils,  
Mignonette and Violets.



**JOHN I. RAYNOR,**

**49 West 28th Street, - New York City.**

# NO EASTER MATERIAL

gives more satisfactory results than good well-grown Carnations, carefully handled and properly packed.

I AM RECEIVING DAILY the finest stock of these in the New York Market, variety and quality unequalled.

Also can supply to any limit, if ordered now, at lowest quotations for equal quality:

American Beauty, Brunner, Bride, Bridesmaid, Cusin, Morgan, Violets, Lily of the Valley, Tulips, Daffodils, Mignonette, Asparagus and all other desirable EASTER SPECIALTIES

Asparagus Sprengerii and Fresh Cycas Leaves

## Big Roses

## JOHN YOUNG,

51 West 28th Street.....

NEW YORK CITY.

## Boston Flowers

HIGH GRADE  
GROWN COOL

Prime  
Easter  
Stock.

ROSES, CARNATIONS,  
DAFFODILS, VALLEY,  
LILIES in Pots and Cut Bloom

All Lilies cut and packed in special boxes of fifty flowers at greenhouses. No rehandling. All Longiflorum - no Hartist. Will keep several days

Special Brunners, Heath, Asparagus, Violets

.....Orders Booked in Advance for Easter.....

## GEORGE A. SUTHERLAND,

67 Bromfield Street....

BOSTON, MASS.

## MORE ROSES NEEDED!

NOT ONLY FOR EASTER, BUT FOR EVERYDAY DEMANDS

ROSE GROWERS ARE REQUESTED TO COMMUNICATE AT ONCE WITH

## JULIUS LANG

53 W. 30th Street.....NEW YORK

CAMPBELL VIOLETS in 4 inch  
Neposet pots  
Splendid plants, well flowered  
A big stock for sale for EASTER

PRICES ON APPLICATION.



"What Shall the Harvest Be?"

The recent action of the executive committee ought to interest every florist in the country. It will at least pay them to carefully study what the national society proposes to do to benefit the interests of its members. If florists were as apt to see what is beneficial to their own interests as almost every other trade is there would be a stampede to join the ranks of the Society of American Florists. But viewed in the light of past history they will undoubtedly take at least five years to consider the matter. It has taken eleven years to convince the trade that hail insurance is a good thing, and even at this late date a good many florists are waiting for a convincing argument in the shape of an old-fashioned hail storm to make them thoroughly appreciate the benefits of mutual protection against hail.

The Florists' Mutual Fire Insurance Association is following in the footsteps of the Hail Association. Some think they could have devised a plan that would have distanced the one adopted by the committee, while others think that an insurance association can commence business by simply trusting in the Lord to get the necessary cash to meet losses, while nearly all lose sight of the fact that equity is aimed at, and insurance at first cost will ultimately result. Like the Hail Association, the Mutual Fire Insurance Association will in the end be a grand success.

So will it be with the Society of American Florists and Ornamental Horticulturists. With a charter and a constantly increasing reserve fund the S. A. F. A. O. H. will cease to be "a rope of sand," and with the benefits devised by the executive committee a full treasury will undoubtedly be the outcome. The downward progress of the S. A. F. has been stopped. The past year shows a balance over all expenses of \$135. If the old members do their duty, and if the trade knows a good thing when it sees it, that sum ought to be quadrupled this year after paying for all its benefits.

But we have forgotten the kicker. What will he say? A week or two before the convention he will probably rise to remark that "bowling" is wicked, that "junketing" is a device of the evil one to catch the souls of wicked florists, and that the exhibition was a fraud. Meanwhile the florist who is not dead from his shoes to his shoulders will avail himself of the benefits which the S. A. F. will be in a position to confer, and the harvest of groaning, moaning grunners will eventually be gathered in by the sheriffs of their neighborhoods.

In these days of progress only live men can exist.

JOHN G. ESLER.

**SOMETHING**  
FOR **NOTHING** THAT  
WILL MAKE YOU **DOLLARS**  
AN ESTIMATE FOR **CUTS**  
AND ELECTRO  
FROM **BRYANT PHILA**  
**ENGRAVER** ON WOOD HALF-TONE  
520 WALNUT ST.  
SEE MY NAME ON CUTS

When corresponding with advertisers, mention the AMERICAN FLORIST.

# Palmer's Hot Bed Mats

**FROST PROOF**

Made expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

## Indestructible, Cheap and Warm

WILL not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.

### MADE IN FOLLOWING GRADES:

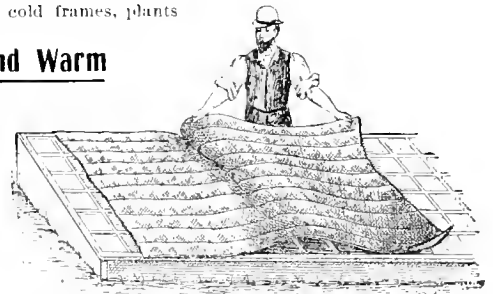
No. 1—**Burlap Cloth**, filled with combination wool and quilted, seams 3 inches apart and edges firmly bound.

Size 40x76 inches, 50 cents each.  
" 76x76 " " 75 " "

Made any length, 76 inches wide, at 12 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1.  
Size 40x76 inches, \$0.75 each.  
" 76x76 " " 1.00 " "

Made any length, 76 inches wide, at 16 cents per running foot.



No. 3—**Waterproof**, made of oil duck, filled and quilted same as Nos. 1 and 2.  
Size 40x76 inches, \$1.00 each.  
" 76x76 " " \$1.25 to \$1.50 each.

Made any length, 76 inches wide, at 20 cents per running foot.

That these mats are a **much needed improvement** over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.

PATENT APPLIED FOR.

WE ALSO MAKE **QUILTED HORSE BLANKETS**

The Cheapest, Warmest and Strongest in the World...

# The R. T. Palmer Co.

Or New London, Conn.

113 Worth Street, NEW YORK

Address all correspondence to The R. T. Palmer Co., New London, Conn. Agents wanted—pay good commission. Mention American Florist.

THIS IMPRINT ON AN ENGRAVING

# MANZ CHICAGO

IS A GUARANTEE OF SATISFACTORY QUALITY.....

Manz makes illustrations for this paper.

## CHICAGO'S FAVORITE PASSENGER STATION

Reasonable success seems to have followed the efforts of the management of the Nickel Plate Road to make it popular as a passenger line for travel East. It is regarded as a favorite by many in making the journey from Chicago to eastern points.

Patrons of that line will be gratified to learn that arrangements have been made, effective Sunday, March 6th, for all passenger trains of the Nickel Plate Road to arrive at and depart from the Van Buren Street Station in Chicago.

The many advantages afforded by this Great Union Depot, located in the heart of the business portion of Chicago, and the continued advantage afforded by lower rates than over other lines, having three express trains daily, with through sleeping cars, to New York and Boston, and the advantage of superior Dining Car Service, when all considered, should show increased travel over the Nickel Plate Road.—(8)

## ORCHIDS, CACTI AND BULBS.

Send for trade list and bargain prices.

J. A. MCDOWELL,  
APARTADO 167, CITY OF MEXICO.

## GEO. E. COLE & CO.

Blank Book Makers,  
Stationers and Printers

86 and 88 Dearborn Street,  
CHICAGO.

## "Lyon-Horticole"

is an interesting review of French horticulture. Issued semi-monthly, 20 8-vo. pages illustrated. Subscriptions to the United States: 1 year, \$2.00; 6 months, \$1.00. Address

DIRECTEUR LYON-HORTICOLE,  
Lyon-Villeurbanne, France.

## FLORISTS' MUTUAL FIRE INSURANCE ASS'N

Application Blanks and Prospectus Ready....

Write now. Delays are dangerous.

W. J. VESEY, Sec'y, - Ft. Wayne, Ind.

## MAIL For Insurance against damage by hail, Address

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

## THE NATIONAL Florists Board of Trade

C. S. LODER, Sec'y, 271 Broadway, New York.

## THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,

387 Broadway, New York City.

J. D. McBEATH, N. E. P. A.,

5 State Street, Boston, Mass.

C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

Do the American Florist a small favor. Mention the paper when writing to advertisers.

**THE SEED TRADE.**

**AMERICAN SEED TRADE ASSOCIATION.**

JEROME B. RICE, Pres., E. B. CLARK, 1st Vice-Pres., S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO.—Jos. Rolker, of Aug. Rolker & Sons, New York; Wm. Hagemann, Philadelphia.

BARTELEDES & Co., Denver, Colo., report business much better than it has been for two or three years, and attribute this to the high price of wheat, oats and other grains.

J. M. THORBURN & Co., New York, say that the early spring has had the natural effect of sending in seed orders earlier than usual, the demand being good, but prices continue low.

HENRY A. DREER, Philadelphia, reports a marked increase over last year's business, especially in the cash sales. The increase is general and in no special department, all branches feeling the improvement.

NEW YORK.—Retail counter trade begins to boom. A line of clerks behind the counter and a double line of customers in front is what a visit to the various seed stores discloses. It is said now that prices on French bulbs are liable to advance. Mr. Littlejohn, of Rush Park Seed Co., Independence, Ia., is in town.

THE height of the season in the mail trade business was evidently reached this year rather earlier than usual owing to the advanced season. Monday, March 14 probably showed the highest number of mail orders, as well as total cash received, with most firms in the trade. While business remains good generally throughout the country, it has fallen away materially since that date.

W. ATLEE BURPEE & Co., Philadelphia, Pa., say that a conservative estimate of the seed trade up to date this year compared with last would show a gain of about 20% in money value of sales, while the bulks used would represent considerably more than this owing to the continued downward tendency in prices. It is certainly to be deplored, when so many items are short this year (notably sweet corn, Netted Gem musk melon, Fordhook Early watermelon and Red Globe onion) that the goods should have been sold so much below what is their present market value. In fact the demand for all onion seed has been so very much heavier (fully 50%) than in either of the preceding two years that the prices both wholesale and retail could readily have been advanced 10% to 50% from the printed list figures. It is a fact that we, in common with other houses, have contracted for onion seed crop of 1898 at higher figures than we have sold seed this season and very much higher than the seed cost us on the crop of 1897. From all reports the visible supply of onion seed of new crop will be amply sufficient for the average demand and as this will necessitate considerable advance in both wholesale and retail prices for 1899 we look for a general stiffening of prices in other lines.

**CLARK BROTHERS**

**Paper Seed Bags**

61 Ann Street, New York.



**RAFFIA** BEST QUALITY, LONG MADAGASCAR Having purchased on a very favorable market, and wishing to move the stock quickly, make the following special low quotations for prompt orders.

In bale lots (about 225 lbs.) at \$e 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb. f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

**Grafting Wax**

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

**G. C. WATSON,**

Juniper, below Walnut, - PHILADELPHIA.

1878 1898 NEW Price List for If you have not received, send Postal, Will mail you list illustrated descriptive Catalogue.....



H. H. BERGER & Co., 220 Broadway, NEW YORK. ESTABLISHED 1878. (Branch for Pacific Coast, San Francisco, Cal.) Horticultural Imports and Exports from Europe, China, Japan, Australia, Mexico etc

**BURPEE'S SEEDS PHILADELPHIA.**

Wholesale Price List for Florists and Market Gardeners



We beg to inform our customers that we have removed to

No. 11 Broadway (Bowling Green Building).

Write for quotations on JAPANESE BULBS, PLANTS AND SEEDS for full delivery.

**SUZUKI & IIDA,**

No. 11 BROADWAY, No. 3 Nakamura, (Bowling Green Bldg.) YOKOHAMA, JAPAN. NEW YORK.



TRY DREYER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa. Mention American Florist.

**SEEDS LAWN GRASS** \$12.00 per 100 lbs.

Finest Quality Ever Offered Retail at 100c lb. J. CHAS. McCULLOUGH, SEEDSMAN, RECLAIMER AND JONDER GRASS SEEDS North East Corner Second & Walnut Sts., Cincinnati, O. Send for Illustrated Catalogues.

**THE ALBERT DICKINSON CO. DOMESTIC AND FOREIGN GRASS SEEDS**

FOR Parks, Tennis Courts, Lawns, &c. In fancy 1 and 2 pound packages and bulk. SPECIAL PRICES TO THE TRADE. CHICAGO, ILL.

"BEST OF ALL" TOMATO (FOR FORCING) "ENGLISH" MELONS (FOR FORCING) FLOWER SEEDS FOR FLORISTS Catalogues on application. WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., NEW YORK, N. Y.

**August Rölker & Sons, Spring Bulbs, Florists' Supplies, SEEDS**

IMPORT ORDERS booked now for forcing Bulbs, Azaleas, Lily of the Valley, etc., for fall delivery; send for terms to 52 Dey Street, - NEW YORK.

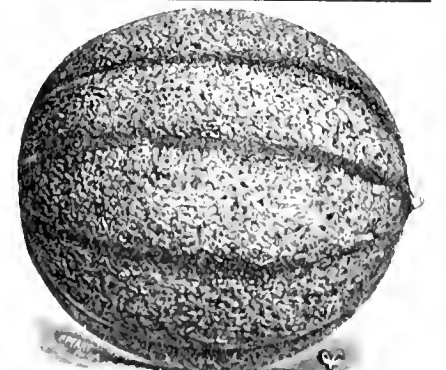
**NEW GIANT ESCHSCHOLTZIAS, "THE GOLDEN WEST."**

30c pkt., \$8 oz. New Giant Fancy Cosmos, six splendid varieties, separate, \$1 oz.; Giant Cosmos, splendid mixed, 65c oz.; Calliopsis "California Sunbeams," \$1 oz. Special rates given on Cosmos in quantity; Apple Geranium, fresh, \$1 per 1000 seeds; New Large Flowering Zonale Geranium, \$2.50 oz.; Ipomaea, "Heavenly Blue," \$1 oz., \$12 lb.; Laurustinus grandiflora, \$1 oz.; Zinnias, "New Curled and Crested," 50c oz.; \$5 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8 per 15 lbs.; Senforthia elegans (Palm) 40c per 100 seeds, \$3 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

MRS. THEODOSSIA B. SHEPHERD, Venture-by-the-Sea, Cal.

**GLUCAS & BODDINGTON CO. Importers and Exporters of Seeds, Bulbs & Plants,**

501 TO 503 W. 13TH ST., NEW YORK CITY. Send for quotations on all Florists' Bulb Stock.



**THE "PAUL ROSE" Muskmelon**

The most valuable novelty since we introduced the Osage Pkt. 10c, 1/2-oz., 30c, 1-oz., 50c; 2 oz., \$1.

VAUGHAN'S SEED STORE, 14 Barclay St., NEW YORK. 84-86 Randolph St., CHICAGO.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

# MacDonald & McManus...

Wholesale  
Florists.....

50 W. 30th St., New York City.  
TELEPHONE 2778, 38TH STREET.

## EASTER WISDOM

Week Before Easter—

### IN YOUR WINDOW:

—a display of our Orchids, which are unquestionably the choicest flowers offered in this country.....

Week After Easter—

### IN YOUR POCKET:

—a roll from which you can take off a couple of hundred for the Omaha trip without missing it.....



## A FAIR PROPOSITION

If we supply you with fine **Cattleyas** we expect you to come to us for at least a portion of your general stock. We have it in all needed variety and best quality.

- |         |            |           |
|---------|------------|-----------|
| LILIES  | CARNATIONS | SMILAX    |
| ROSES   | VALLEY     | FERNS     |
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## SPECIAL

STRUCK  
IT RIGHT,  
AGAIN, THIS  
YEAR.\*\*\*

# JACQS.... LILIES.... BRUNNERS

FOR EASTER

THE new store will be none too large to hold them and the customers, too. Can supply you with everything else you need in cut flowers. Popular Prices. First come, first served

ORDER NOW.

# M. A. HART

Telephone 1307, 38th Street...

44 West 29th Street  
NEW YORK

## EASTER ANNOUNCEMENT:



# W. F. SHERIDAN

OFFERS

A full stock of all flowers for Easter demands, including high grades in all fancy varieties of Roses..

Special — LONGIFLORUM LILIES, AMERICAN BEAUTIES, VIOLETS.



39 West 28th Street

Telephone 214 38th St.

NEW YORK CITY

## Seed Stores AND Flower Stores

Can profitably handle our packages of  
Plant Food. \* \* \* Attractive, take little shelf  
room. \* \* \* Valuable booklet free. \* \* \* Good profits.

**The WALKER FERTILIZER CO.**  
CLIFTON SPRINGS, N. Y.

## 3,000 NEW NAMES

In the American Florist Company's  
Directory, (6th edition, 1898) now  
in the press : : : : : Price \$2.00.  
AMERICAN FLORIST COM-  
PANY, 324 Dearborn St., Chicago.

# PALMS

LARGE STOCK & PERFECTLY HEALTHY

ALL MEASUREMENTS ARE FROM TOP OF POT. ❀❀❀

## Areca Lutescens

3 plants, 4-in. pot, 12 to 15-in. high, per 100.....	\$20 00
3 " 5-in. " 15 to 18-in. " " " .....	40.00
3 " 6-in. " 24 to 32-in. " very bus'y ea.	1.00
3 " 8-in. " 36 to 42 in. " " " "	2.00
3 " 8-in. " 42 to 48-in " " " "	2 50
1 " 10-in. " 4 to 5-ft. " " " "	5 00

## Latania Borbonica

2½-in. pot, 3 to 4 leaves, per 100, \$4; per 1000	35.00
3-in. " 4 to 5 " " " 8; " "	70 00
4-in. " 4 to 5 " " " 20.00	
6-in. " 5 to 6 " 18 to 20-in. high and wide.....	.75

## Cocos Weddeliana

1 plant, 5-in. pot, 24 inches high, each..... .75

## Kentia Belmoreana

2½-in. pot, 3 leaves, 8 to 10-in. high, per 100... 14.00  
 3-in pot, 4 to 5 " 10 to 12-in. " " " ... 20.00  
 5-in. pot, 5 to 6 " 18 to 20-in. " each..... 1.00

## Kentia Forsteriana

5-in. pot, 4 to 5 leaves, 24 to 30 in. high, each, 1.00  
 6-in. pot, 4 to 5 leaves, 30 to 36-in. high, each, 1.25

# JOSEPH HEACOCK,

WYNCOTE, NEAR PHILADELPHIA, PA.

Mention the American Florist.

# ASPARAGUS PLUMOSUS

**...NANUS** The most serviceable and popular Decorative Plant extant. Has supplanted Adiantum for cut flower work on account of the lasting quality and gracefulness of the fronds. True transplanted seedling plants, now ready, \$3 per 100; \$25 per 1000. 500 at one thousand rates. Cash with order from unknown correspondents.❀❀

# CHEAP PALMS!!

	Inch pots.	Inch high	No. of leaves	each	Price 100
Areca Lutescens.....	2	6-8	2-3	\$0 10	\$6.00
" Rubra .....	3	12-15	3-4	.12	10 00
" " .....	3	10-12	3-4	.15	14 00
Corypha Australis.....	3	6-8	3-4	.12	10.00
" " .....	4	12-15	4-5	.25	22.00
" " .....	10	42-46	9-10	2.25	
Phamærops Fxcelsa.....	3	6-8	3-4	.12	10.00
Latania Borbonica, \$35.00 per 1000.....	2½	8-10	2-3	.05	4.00
" " .....	3	10-12	3-4	.12	10.00
Phoenix Canariensis.....	4	15-18	3-4	.22	20 00
" " .....	5	20-24	3-4	.40	38.00
" Reclinata.....	8	36-40	6-7	1.75	
" " .....	10	42-50	7-8	2.75	
" Tenuis .....	4	15-18	3-4	.25	22.00
" " .....	7	36-40	5-6	.90	
" Sylvestris.....	7½	36-40	6-7	1.50	
" " .....	8	40-45	6-7	2.25	
Rhapis Flabelliformis, 2 to 3 branches.....	5	12-15	10-12	1.50	
" " .....	6	30-24	12 15	2.00	
" " .....	8	30-36	20-24	4 00	

Send for list of other varieties and prices.

# R. ASMUS, New Durham, N. J.

W. J. HESSER, PALM GARDENS, PLATTSMOUTH, NEB.

## BRILLIANT GREEN AND BRONZE GALAX LEAVES.

CHAS. H. RICKSECKER, MITCHELL CO. LINVILLE, N. C.

# SMALL GREEN GALAX

For use with... VIOLETS  
 Stiff, wiry stems. Work up beautifully. Are all the rage.  
 Box of 5000, \$5.00. Less quantity at \$1.25 per 1000.  
 ...ADDRESS...

HARLAN P. KELSEY, 1150 Tremont Bldg., - BOSTON, MASS.

If corresponding with an advertiser at any time, say "saw your ad. in the AMERICAN FLORIST."

THE NURSERY TRADE.

AMERICAN ASSOCIATION OF NURSEYMEN.  
 IRVING ROUSE, Pres.; E. ALBERTSON, Vice-Pres.;  
 GEORGE C. SEAGER, Rochester, N. Y., Sec'y and Treas.

JACOB W. MANNING, READING, MASS., reports that comparison of this year's orders with last year's, at the same time, is decidedly in favor of increased business for 1898.

SHADY HILL NURSERY CO., BOSTON, MASS.: The nursery trade in New England, as we know it, is about the same in volume as last season, neither more nor less. Prices, however, have no standing. The nurserymen are somewhat at fault as to low prices. If they maintained a firmer front against the cut in rates they would be able to sustain a better range of prices.

HOOPES BRO. & THOMAS, WEST CHESTER, PA.: The season this year is so much earlier than usual, it is difficult to make any comparison with last or former years. We would say, however, that the orders are probably 10% or 15% ahead, and should the season continue favorable, we have but little doubt that there will be an increase in the amount handled, but unfortunately, the prices are so low that there will be very little increase in the bank account.

THOMAS MEEHAN & SONS, Germantown, Philadelphia, Pa., report that the mild spell of weather which prevailed during almost the whole month of March has advanced the shipping season at least two weeks. Taking this into consideration and the fact that it seems to be equally as advanced all over the country, they find that their orders are about as usual or perhaps a little heavier than has been the case for the last year.

JAMES B. WILD & BROS., SARCOXIE, MO.: Will say that we can note but little change as compared with the past four years, and last year was certainly a hard one in the nursery trade—low prices and everyone wanting to unload. A curtailing of propagation has been going on for the past five years, and this with the assistance of nature to grow the stock to a size not marketable has reduced the surplus to a point where there can now be no stock to offer. This has led to inquiry from all points for the small wants, and many nurserymen are led to believe that there is a revival of better times. The facts are, however, a reduction of propagation, and the now overgrown stock has made a shortage, and the calls for needs have gone from one nursery to another, who in turn could not supply.

HARDY SHRUBS

Assorted in 25 Varieties.

Mail order, or 1000. Describe plants, catalogue and prices, lists for the trade.

SAMUEL C. MOON,  
 MORRISVILLE, - Bucks Co., PA.

CLEMATIS

... Rhododendron  
 ... H. P. Boon, Tree Root  
 ... Begonia, and

Branch of  
 The Horticultural Co. I. C. BOBBINK,  
 Boskoop, Holland. Rutherford, N. J.

**100 ACRES IN ORNAMENTAL TREES AND SHRUBS** Deciduous Evergreen, Hedging, Vines, Bulbs, Tubers, Etc.  
 NEW 1898 CATALOGUE, 40 PAGES, FREE.  
 The Wm H. Moon Co., Glenwood Nurseries, MORRISVILLE, PENNA.  
 Mention American Florist

Nursery Stock Cheap

Grasses, \$3.00 to \$6.00 per 100. Hollyhocks and 20 very choice varieties of hardy Phlox cheap. 10,000 Yards of Dwarf Box. Rocky Mountain Cherry, strong, 7c each. Samples sent on receipt of price. Surplus List Free.  
**THE ELIZABETH NURSERY CO.,** ELIZABETH, N. J.  
 Mention American Florist.

**EVERGREENS AND FOREST TREES**  
 Illustrated Catalogue Free

FLORISTS AS WELL AS NURSEYMEN HANDLE MY NURSERY-GROWN EVERGREENS AT A BIG PROFIT

Leaders for this season. 300,000 transplanted Hemlocks Over 1,000,000 of the beautiful Rocky Mountain Evergreens. 200,000 Red Cedar from northern seed and millions of the old standard sorts, such as Spruces, Pines, Balsams and Arbor Vitae. My trade list costs you nothing but a postal card.

D. HILL, Evergreen Specialist, = Dundee, Ill.

Can't Be Beat!

The 12 acres of hardy perennials formerly belonging to the U.S. Nurseries must be sold at once, land to be devoted for building purposes.

All extra large clumps Per 100, F. O. B., Short Hills.

Ajuga reptans	.....	\$3.51
Amsonia Tabernaemontana	.....	3.00
Artemisia Ludoviciana	.....	3.00
Artemisia Abrotanum	.....	3.00
Eryngium Aethiopianum	.....	3.50
Funkia laciniata	.....	3.50
Funkia cordata	.....	3.50
Hellianthus mollis grandiflorus	.....	5.00
Hellianthus hybridus	.....	5.00
Helenium autumnale	.....	7.00
Hemerocallis Dumortieri	.....	4.50
Hemerocallis Kwangsi fl. pl.	.....	4.50
Iris cristata	.....	4.50
Iris sibirica sinuata	.....	4.50
Opuntia Rafinesquii	.....	3.50
Mentha canadensis	.....	3.50
Pentstemon laevis	.....	4.50
Phlox paniculata mix.	.....	3.50
Polygonum Sachalinense	.....	2.50
Polygonum cuspidatum	.....	2.50
Pycnanthemum laciniatum	.....	4.50
Rudbeckia speciosa	.....	3.00
Salvia verticillata	.....	2.50
Salvia officinalis	.....	2.50
Sylvestris giganteum	.....	4.50
Sedum Tabernaemontani	.....	3.50
Sedum spectabile	.....	3.50
Stachys latifolia	.....	3.00
Thymus vulgaris	.....	3.00
Thibaudia bicolor	.....	6.00
Verbena gracillima	.....	10.00
Phacelia arund. acen variegata	.....	2.50
Lonicera Halliana	.....	4.00
Lonicera brachypoda	.....	4.00
Andromeda in varietes	.....	10.00

Call in time and get your money's worth. Plants carefully packed and guaranteed to arrive in good condition. Cash with order.

J. F. ANDERSON  
 FLORIST. SHORT HILLS, N. J.

HARDY Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

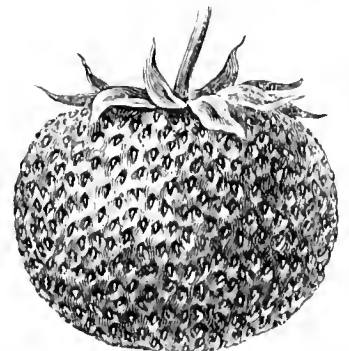
PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,  
 The Reading Nursery, READING, MASS.  
 ESTABLISHED 1854.

F. & F. NURSERIES  
 SPRINGFIELD, N. J.

New Fruits and rare Ornamentals. Shade Trees, Shrubbery, River, Specialties. 100,000 Peach at lowest prices. Catalogue free. Agents wanted.

The Earliest Strawberry in Cultivation is the



"EARLIEST"

Both by Name and Nature.  
 Mr. A. I. Root of Medina, Ohio, says it ripened with him the past season fully two weeks ahead of Michel's Early. (Stimpy wonderful!)

Nurserymen and Seedsmen who get our catalogue will find this the best selling berry introduced, as every person who grows strawberries wants the earliest.

Also Darling, the most productive early berry grown.

Currie, the queen of strawberries, 100 other varieties, 100,000 Early Jersey Wakefield Cabbage Plants, cold bed, only \$2.00 per 1000.

100,000 Mixed Canna Bulbs, blue stock, to the trade, put up in 500 and 1000 lots at \$10.00 per 1000, \$1.50 per 100.

Fine Tobacco Dust, \$1 per 100 lbs.; \$18 per ton. Send for wholesale catalogue.

THOMPSON'S SONS,  
 Introducers, RIO VISTA, VA.

Mention the AMERICAN FLORIST when corresponding with an advertiser.



# DON'T DELAY!

Order now--there is still time to get  
your orders booked for

**Fine Easter Lillies or Callas,  
First-Class Roses,  
The Finest Carnations in the market,  
Any amount of Bulb Stock**

In fact anything in season. Our Price List ready to-day--  
if you don't receive one write for it--  
free on application.

**51 WABASH AVENUE,  
CHICAGO.**

**E. C. AMLING.**

**DON'T USE A**

# THRESHING MACHINE

**TO LIFT VENTILATING SASH.**



**Use the Evans Improved.....  
Challenge Ventilating Apparatus**

**THE ROLLER  
BEARINGS  
.....DO IT.....**

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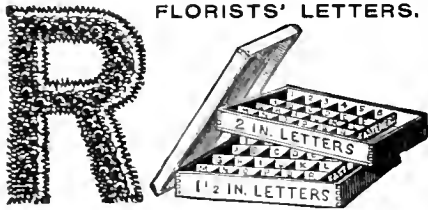
**NOISELESS---EASY TO WORK---STRONG.**

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**QUAKER CITY MACHINE WORKS,  
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**Boston Florist Letter Co.**

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters 1 1/2 or 2-inch size, per 100, \$5.00.  
Script Letters \$1. Fastener with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treasurer and Manager,  
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**THERE!**

10,000 CENISTA SCOPARIA, Scotch Broom, splendid, ornamental, hardy and rare, 18-36 inch, 100 for \$5, 1000 for \$15; cash with order.

100,000 YUCCA FILAMENTOSA, strong tubers, 100 for \$1, 1000 for \$5. Fine plants, 100 for \$2-3; 1000 for \$12-25, according to size. Our spring list will interest you.

PINEHURST NURSERIES, Pinehurst, N. C.  
Otto Kalzenstein, Supt.

**Have You Seen Our Agent?**

A Complete Catalogue for Florists.  
Send for One.

ELLIS & POLLWORTH  
MILWAUKEE, WIS.

**John Conley & Son,**

Manufacturers of

**TIN FOIL**

2 AND 4 DOMINICK STREET,  
New York.

**HARDY CUT FERNS**

\$1.25 Per Thousand After March 1st.



FANCY

DAGGER

Do not order any ferns unless you are willing to pay this price as my stock is very limited and I have hardly enough now to carry my old stand-by customers to Easter.

L. B. BRAGUE, Hinsdale, Mass.

When writing mention the American Florist.

**Notice!**

**A Permanent Plant Market**



Has been established. Through the instrumentality of the NEW YORK MARKET FLORISTS' ASSOCIATION, Clinton Market, Washington and Canal Streets, New York City, will be opened Monday, March 28, at 4 a.m., and will continue open daily thereafter for the sale of plants, including Bedding and Decorative kinds. \* \* \* \*

200 West Side Avenue, Jersey City, N. J.

A. D. ROSE, SECRETARY.

SPECIALTY  
Floral Metal  
Designs \* \*

**Florists' Supplies**

SPECIALTY  
Prepared \* \*  
Cycas Leaves

SPECIALTY: WHEAT SHEAVES. Write for Catalogue.

**A. Herrmann,**

404, 406, 408, 410, 412 East  
34th Street,

NEW YORK.

Manufacturer of Metal Floral Designs. Importer and Dealer in Florists' Supplies.

**Neponset Flower Pots**

Made of Waterproof Cardboard, of nice terra cotta color.

Terms—Net cash with order. If ordered shipped by FREIGHT, ADD 50 CENTS CARTAGE.

Size	Packed in Crates of	Gross Weight per 100 pots	Per 100	Per 1000
2 1/4-inch	1000	about 20 lbs.	\$0.25	\$2.20
2 1/2 "	1000	" 23 "	.30	2.40
3 "	1000	" 34 "	.45	3.60
3 1/2 "	1000	" 45 "	.60	5.15
4 "	500	" 75 "	.80	6.90
5 "	300	" 100 "	1.20	10.35
6 "	200	" 150 "	1.65	14.55

Standard Pot Measure.  
Less quantities than full crates at 100 rates.  
Full sample dozens of a size mailed on receipt of 10c 12c 15c 22c 30c 45c 60c

for 2 1/4-in. 2 1/2-in. 3-in. 3 1/2-in. 4-in. 5-in. 6-in. pots.  
F. W. BIRD & SON, Manufacturers.  
Address all orders to our General Agents,

**August Rölker & Sons**

52 DEY STREET, NEW YORK.  
Our Eastern Agents are  
R. & J. FARQUHAR & CO., Boston, Mass.

It is not much trouble to mention the AMERICAN FLORIST when corresponding with an advertiser.

**FIRST-CLASS GOODS and CORRECT PRICES**



have forced us to the front and today we are the largest manufacturers of.....

**IRON RESERVOIR VASES**

and Lawn Settees in America. . . . A 40-page catalogue for the asking.

McDonald Bros.

108-114 Liberty St.,  
COLUMBUS, O

**ANNOUNCEMENT..**

I take great pleasure in announcing to my many friends and patrons in the trade that I have started in business as Buyer and General Commission Agent. Am in position to fill orders for Plants, Seeds and Bulbs of all kinds, also agent Brazilian Tonic Plant Food. Thanking my many customers for past favors, and soliciting their esteemed future orders, I remain \* \* \* Yours very truly,

**F. L. ATKINS**  
ORANGE, N. J.

**Surplus Stock**  
Can be disposed of by advertising. Try it.....  
This Size "Ad." Costs Only \$1.00.  
AMERICAN FLORIST CO., CHICAGO.

**Doves...**

The largest and finest stock of white doves on earth. \* \* \*  
Write for prices. \* \* \* \*

S. J. RUSSELL, 203 Summit Ave.,  
JERSEY CITY, N. J.



See this ad. 21 c. in 100 stamped on every copy.  
Mention this paper



# -WAR-



## THE FIRST GUN

in the campaign of spring business is fired by us this week, and we mean to make the fur fly all along the line. We have Larger Stocks, More Novelties, More Exclusive Designs, and Better Facilities than ever before, and can give better service and at unmatched prices.

Our Mr. Bayersdorfer sails

## FOR EUROPE

in a few days to inspect and secure every valuable idea and product of the great markets of the world, which knowledge added to our great manufacturing facilities in Philadelphia and aided by the genius of the up-to-date American, easily keeps us in the forefront, and is our contribution to American Supremacy before the world.

## A GOOD LICKING

to a postage stamp is all it will cost you to secure a copy of our Illustrated Catalogue. Write to-day. We have goods to sell that will help your business and give you a reputation with the people who buy. Every requisite for stocking up a first class florists' store is in our warehouses in quantity. This announcement will have done its duty if its readers will write us fully of their wants. Our catalogue will do the rest and make them our customers. FIRE AWAY.

# H. Bayersdorfer & Co.

IMPORTERS AND MANUFACTURERS  
OF ALL FLORISTS' SUPPLIES...

50-52-54-56 North Fourth Street. Philadelphia, Pa.

# Easter Earnings



Will be increased by handling flowers from our superb stock.

EVERYTHING THE BEST in all that is DESIRABLE for the Easter trade.

Lilium Harrisii, \$12 per hundred---plants or cut flowers.

Special

## American Beauties

A magnificent stock. All grades of Tea Roses.

## Carnations

In any quantity. Our stock of this popular flower is unexcelled.

Our shipping facilities are the best in this country and our system of packing insures safe delivery.

# Samuel S. Pennock

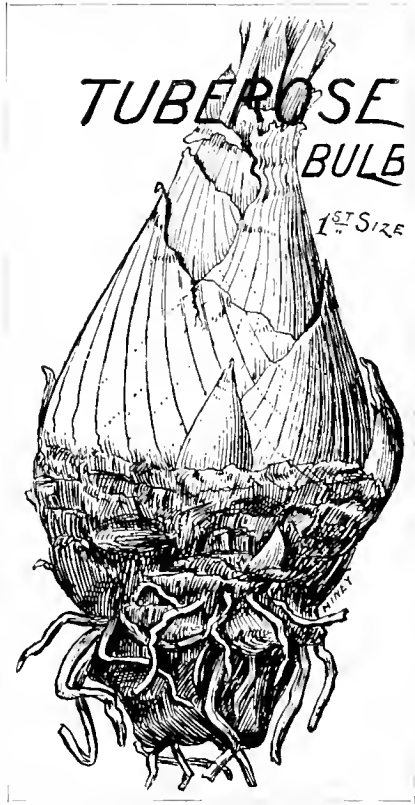
WHOLESALE FLORIST

1612-14-16 Ludlow St., Philadelphia.

# Cannas, Caladiums and Tuberoses



We offer an immense stock of Canna Roots... all in perfect condition; strong roots, 2 and 3 eyes each... Strictly true to name and unmixed.



	100	1000		100	1000
Alexander Billard.....	\$3.00		G. St. Hillaire.....	\$2.50	\$20.00
Alphonse Bouvier.....	2.50	\$20.00	Mad. Crozy.....	2.00	15.00
Ami Pichon.....	2.50		Miss Sarah Hill.....	2.50	
Austria.....	2.50	20.00	Mad. Montifiore.....	5.00	40.00
<b>Chas. Henderson.....</b>	1.25	10.00	Oriole.....	5.00	40.00
Chevalier Besson.....	1.50	12.00	Paul Bruant.....	1.50	12.00
Count H. de Choiseul.....	1.50	12.00	Paul Marquant.....	2.00	15.00
Egandale.....	2.50		Pres. Carnot.....	2.50	
Florence Vaughau.....	2.50	20.00	Professor.....	3.00	25.00
F. R. Pierson.....	2.50		Queen Charlotte.....	2.50	20.00
Flamboyant.....	1.25	10.00	Sec'y Stuart.....	2.50	
Francois Crozy.....	2.00	15.00	Sunbeams.....	4.00	35.00
Italia.....	4.00	35.00	Wm. Elliott.....	1.50	12.00
J. D. Cabos.....	3.00		Mixed, Tall or Dwarf....	1.25	10.00

## TUBEROSES..... EXCELSIOR DWARF PEARL

Southern Grown, of extra quality and average size shown by the cut—many are larger. 75c per 100; \$6.00 per 1000.

## CALADIUM ESCULENTUM.....

Home Grown, solid, sound with good centres, 7 to 9 in., \$4.00 per 100; \$35.00 per 1000. 5 to 7 in., \$2.50 per 100; \$20.00 per 1000.

# The Lovett Company

LITTLE SILVER, N. J.

**Yes!** We Are Selling Lots of Stuff  
People Like to Buy of Us.....

“Because Mary Loves the Lamb, You Know.”

## VERBENAS

They **certainly** are the finest in the land. Rooted Cuttings, 75c per 100; \$ 6 per 1000 Pot Plants, \$2.50 per 100; 20 per 1000

## DAHLIAS

25 fine sorts.....\$4.00 per 100

## CARNATIONS

Fine assortment. See Trade List.

## FARFUGIUMS

\$10.00 per 100.

## FUCHSIAS

Phenomenal and Mrs. E. G. Hill.....\$4.00 Per 100 In Variety..... 3.00

And stacks of other stuff. Send for our Trade List if you haven't it. Keep watch of our ads. We are sure to interest you sooner or later.

## COLEUS....

Finest Sorts grown. Rooted Cuttings... \$1 per 100; \$6 per 1000 Pot Plants, \$3 per 100; 200 for \$5; \$20 per 1000.

## PELARGONIUMS

Altho' we have sold thousands we still offer **Victor and Freddie Heintl**, \$6 per 100 Mixed..... \$3 per 100

## Umbrella Plants

Nice ones.....\$3 per 100

## OLEANDERS

Double White and Pink.....\$6 per 100

## VIOLETS....

Marie Louise, California.....\$3 per 100

## Roses

3-inch Forcing Sorts.....\$6 per 100  
2 1/2-inch Forcing Sorts..... 3 per 100  
Other Teas..... 3 per 100  
Jacques and other H. P.'s. See Trade List.

## Chrysanthemums

Finest Sorts in cultivation. \$3.00, \$4.00 and \$5.00 per 100. See Trade List.

## GERANIUMS

Finest Sorts.....\$3.00 per 100

## VINCAS....

Two Sorts, 2-in., \$3 per 100; 3 in. \$10 per 100; 4-in., \$15 per 100.

W. L. SMITH, Aurora, Illinois.

**GOOD MORNING!** Have you used....

Not “Any Old Thing,” but **OUR LABELS?**

Our customers say that they are unexcelled. Send for samples and prices....

**Benjamin Chase, Derry, N. H.**

## WANTED.

Quick for cash, mailing size ROSES, Margaret Dickson, Mrs. J. S. Crawford, John Hopper and Capt. Christie; Primula obovata, Daphne odorata, mixed Gloxinia, Oleo fragrans.

**O. A. DAVIS & SON, Purcellville, Va.**

Mention Am. Florist when writing.

# Talk

("United States")



...ABOUT...

# Import Bulbs



- An American Firm, paying U. S. Taxes,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.
- Paying U. S. Custom Duties on honest invoice valuations,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.
- Paying its bills at one hundred cents on the \$,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.
- Financially and otherwise supporting the U. S. Florists and other public horticultural interests,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.
- With sixteen years experience in caring for the needs of American Florists,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.
- With painstaking knowledge of the best and most reliable sources of supply in every line,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.
- With ability to inspect and intention to send out only A No. 1 stock of every class,  
NEW YORK. VAUGHAN'S SEED STORE. CHICAGO.



## SOLICITS....

the opportunity of quoting prices on the

**FULL LIST** of your wants  
in Imported Bulbs and Azaleas.  
May we hear from you now?

## SPRING BULBS.



<b>LILIUM AURATUM.</b>	Per 100	Per 1000
7-9 inch	\$3.75	\$35.00
9-11 inch	5.00	45.00
<b>L. RUBRUM (Speciosum)</b>	Per 100	Per 1000
7-9 inch	4.75	40.00
9-11 inch	6.75	60.00
<b>LILIUM ALBUM (Speciosum)</b>	Per 100	Per 1000
7-9 inch	6.50	55.00
9-11 inch	7.50	65.00
<b>BEGONIAS TUBEROUS ROOTED...</b>		
Single - separate colors	3.50	30.00
Double	9.00	

## TUBEROSES

True Excelsior Pearl. "Hallock strain" First size, per 100, \$1.00; per 1000, \$7.50.

**GLOXINIAS**  
Per doz., 85c; per 100, \$5.00

**CALADIUMS....**  
Fancy leaved - choice bulbs, per doz., \$1.75; per 100, \$12.00

**Caladium Esculentum**  
Cured and sound bulbs with live center shoots. Doz. 100

5 to 7 in. circ. 40 \$2.50

7 to 9 " " 45 4.50

9 to 12 " " 1.00 6.50

50c per 100 less on 7 1/2 inch and 9-12 in. sizes if shipped from New York.



## GLADIOLUS XXX Florists Mixture

Per 100 \$1.75 Per 1000 \$15.00

## GREENHOUSE STOCK.

Asparagus Sprengeri, strong, young plants, per 100, \$5.00.

Ficus Elastica, true, large leaf variety, 6 inch pots, 20 inches high @ 50c each.

Crimson Rambler Roses, extra fine, bushy plants, in 4-inch pots, will soon bloom, per dozen, \$2.00; per 100, \$15.00.

Cycas Revoluta, dormant stems, size from 3 to 10 lb. @ 1.50 per lb.

Clothilde Souperl, the great pot rose, our stock is A No. 1, 2-in. @ \$3.00, 2 1/2-in. @ \$4.00; 3-in. @ \$6.00, 3 1/2-in. @ \$9.00 per 100.

Dahlias, 2 1/2-in. pot plants, in named varieties, per 100, \$5.00.

Pelargonium Mme. Thibaut, Mrs. Robt. Sandiford, Edward Perkins and Dorothy - strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.

For Cannas, Carnations, Chrysanthemums, send us your list, we have all kinds.

H. P. Roses, dormant, 2 year, extra fine stock @ \$12.00 per 100.

Clematis, Ampelopsis Veitchi, Hollyhocks, Paeonies, Hydrangeas P. G., etc. we have in large quantities; write us for prices.

# VAUGHAN'S SEED STORE,

NEW YORK: 14 Barclay St.

CHICAGO: 84-86 Randolph St.

# April Offer.

Per 100  
 Alternanthera A. Nana, \$1.75; P. Major.....\$2.00  
 Begonias, 5 var.—Veroob..... 2.50  
 Coleus Asst. and Centaurea Gymnocarpa.... 2.00  
 Geraniums, 16 Var., 2½-in. pots, \$2.50; 3-in. 3.75  
 Geraniums, 4-in. pots and Marguerites (Paris  
 Daisy)..... 5.00  
 Pansy plants from cold frames and Smilax..... 1.00

CASH PLEASE.

JOS. H. CUNNINGHAM, Delaware, Ohio.

## GERANIUM "MARS,"

2 and 3-in. pots, \$1 per dozen, \$5 and \$8 per 100, \$45 per 1000.

LYCHNIS FL. PL. ROSEA, 2-inch pots, fine, 50c per dozen, \$2 per 100.

CLIMBING WOOTTON ROSE, 2½-inch pots, fine, 75c per dozen, \$3 per 100.

BURBANK, ITALIA, AUSTRIA CANNAS, 4-inch pots, started, \$1 per dozen, \$5 per 100.

....HENRY EICHHOLZ, Florist, WAYNESBORO, PA.

## 3000 GERANIUMS 3000

Best named, 2½-in., \$25.00 per 1000.

250 Vinca Variegata, field-grown, now in 4-inch pots.....\$10.00 per 100

COLEUS, rooted cuttings..... 6.00 per 1000

## GEO. W. GASKILL,

212 N. Tod Avenue, - WARREN, OHIO.

GERANIUMS. Grand Sun-proof Bedders and other new and fancy, 50 var., \$10 per 1000.

COLEUS. C. Verschaffeltii and G. Bedder \$6 per 1000; 30 superb fancy leaved, \$5 per 1000.

ALTERNANTHERA. P.M.A. Nana and Amena, fine little plants, \$5 per 1000.

PANSIES. Extra fine Giant and Bugnot in bud, \$6 per 1000; small, \$3 per 1000.

SAGE. Grandiflora and Bonfire, \$5 per 1000. Same rate per 100, by express; by mail add 30c per 100.

Begonias, Petunias, Verbenas, etc. Send for my list.

DANIEL K. HERR, Lancaster, Pa.

## COLEUS Rooted Cuttings Well Rooted...

Scarlet Verschaffeltii, Golden Verschaffeltii, Fire King, Fire Brand, Tam O'Shanter, S. P. Gem, Alhambra, Golden Crown, Midnight, Salvator, John Goode, Nigger, 15c per doz.; 75c per 100; \$5 per 1000; express paid.

S. T. DANLEY, Macomb, Ill.

**The Cottage Gardens**  
 QUEENS, L.I.  
 Specialties in CARNATIONS, CHRYSANTHEMUMS, CANNAS, GERANIUMS, DANLIAS.  
 SEND FOR OUR PRICE LIST

## PANSIES THE JENNINGS STRAIN. THEY ARE GRAND.

Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.

E. B. JENNINGS,

Lock Box 254, SOUTHPORT, CONN.  
Crewer of the Finest Pansies.

## TELEGRAPH CODE OF THE AM. SEED TRADE ASSOCIATION

\$2.00,  
In either stiff or flexible cover.

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AMERICAN FLORIST CO., CHICAGO.

# 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.

## NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

## VERBENAS.

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$20.00. New Yellow Marguerite finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

## Marie Louise..

Fine extra healthy Rooted Runners, ready for planting time 1st of June.

ORDERS BOOKED NOW.  
\$15.00 PER 1000.

F. G. Mense, Florist, Glen Cove, L. I., N. Y.

## GREEN AS GRASS.

### MAMMOTH VERBENAS

Fine selected stock in separate colors. Rooted cuttings, per 100, 75c; per 1000, \$6.00. Cash with order.

FRANK S. PAYNE, Barnard Crossing, N. Y.

## AZALEA INDICA

We have an immense stock of all the best varieties; well set with buds; large plants, 12 to 15-inch, \$6.00 per doz.; \$45 per 100.

## PANSIES

We grow over a million from the choicest seed of Bugnot, Cassier, Odier and Trimardeau; transplanted in cold frames; 60c per 100; \$4.00 per 1000.

## HARRISII LILIES

In bud, guaranteed right for Easter; 10c per bud.

## CINERARIAS

In bud and bloom, \$1.00 per doz.

## ROOTED CUTTINGS

Mammoth Verbenas.....	\$ .70	\$5.50
Double Petunia.....	1.00	
Heliotrope.....	.75	
Ageratum.....	.50	

Double Golden Dwarf Marguerite, \$1.00 per 100.

## PLANTS

Double Geraniums.....\$2.00 per 100  
Vinca Variegata..... 2.00 per 100

## WHITTON & SONS,

Wholesale Florists,  
City and Green Sts., - UTICA, N. Y.

## FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,

Lock Box 1528, BOSTON, MASS.  
Correspondence solicited.

## SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

## CLEMATIS

Jackmanii, Henryii doz. 100 and others.....\$3.00 \$20.00  
H. P. Roses Strong, 2 and 3 years own roots.....\$1.50 \$10.00

RED JACKET GOSEBERRY, only large native red..... .75 \$4.00

DOWNING, best for general crop, special prices.

PAEONIES, fine ass't of colors and kinds \$1.25 \$8.00

SMILAX, extra strong plants..... \$2.50

F. A. BALLER, Bloomington, Ill.

## KLONDIKE

Cold Fields at Your Door.

COLEUS—All kinds, all grades and all prices. Verschaffeltii and Queen, 75c per 100; \$6.00 per 1000; 2½-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 5c per 100; \$4.50 per 1000; 2½-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 1000; \$1.50 per 100. Double Petunias, extra fine strains for flats, \$1.50 per 100; \$12.00 per 1000. Achemils Cotoneas Golden Marguerite \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2½-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000. Moutate of Soow, 2½-inch pots, \$2.50 per 100; Mme Sallerol, for flats, \$1.25 per 100; \$10.00 per 1000. 2½-inch pots, \$2.00 per 100; \$18.00 per 1000. The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.

## CARNATIONS AND COLEUS

### ROOTED CUTTINGS

THE 1898 INTRODUCTIONS  
THE 1897 INTRODUCTIONS

DAYBREAK of special quality. ROOTED COLEUS in variety. Good stock only. Price list free.

DAN'L B. LONG, Growers' Agent, BUFFALO.

## 5,000 SMILAX...

From flats, by mail, 50c per 100, \$4.00 per 1000  
From 2-inch pots, \$2.25 per 100, \$13.00 per 1000  
Geraniums from 2-inch pots, \$2.25 per 100; \$20.00 per 1000. Cash with the order. Send for samples. Fred Boerner, CAPE MAY CITY, N. J.

## Marie Louise Violet Runners

Good plants, healthy stock, \$5.00 per 1000.

A. WASHBURN & SON  
BLOOMINGTON, ILL.

## LETTUCE AND OTHER...

### VEGETABLE PLANTS

LETTUCE—Big Boston, Boston Market, Teonis Ball, Grand Rapids and Reibcoer's Forcing. 15 cts. per 100; \$1.00 per 1000

TOMATO, CABBAGE and CELERY—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.

CAULIFLOWER, Snowball—35 cts per 100; \$2.50 per 1000; if by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.  
Mention American Florist.

Kaiserin for Summer Blooming.

As a summer blooming white rose, both indoors and out, the Kaiserin is without question queen of whites. To obtain best results with this peerless variety, good strong plants should be obtained at once from 3 or 4-inch pots and planted as early in April as possible.

They do best planted in a well drained solid bed in a well ventilated house. I find the Kaiserin does better in a very rich soil, in fact it has been my experience that it will stand more manure than any other rose that I have grown, therefore, it is important to prepare a good rich soil for planting. I have had good success with plants grown in the following compost: Three-fourths good heavy yellow loam and one-fourth well rotted cow manure. Great care should be taken to have it thoroughly mixed. Plant them firm as you would roses for winter blooming, syringe every morning during April and twice a day from May 1. Through the summer, never allow the plants to become dry while they are growing freely. It is important to pinch the buds off until the plants have made a strong growth; do not be afraid to give them lots of air on all favorable occasions. Plants treated in this way should bloom continually from July 1, through the summer.

Many people allow this rose to remain dormant from November 15 until the spring, but I have never allowed my plants to rest and I always get as many good blooms from them through the winter as from same space of Brides. I believe the whole secret is in feeding them liberally during the summer and never allowing the temperature to drop below 60° at night during the winter. If they are run at a temperature of 54 to 56°, as is usual with Brides, etc., very little growth will be made, and many buds will come soft and imperfect. W. W. COLES.

Pansy Plants, trans.	Per 100	\$1.50
M. L. & L. H. C. Violet plants	.....	75
Mad. Salleron plants	.....	75
Champion and Stone Tomato Plants	.....	25
	By Mail	
	Each	
Kentworth Ivy, 2 1/2 inches	.....	40
Vinea Var. 3 1/2 inches	.....	80
Geranium Ivy, 2 1/2 inches	.....	30
Heliotrope, purple, 2 1/2 inches	.....	40
Eucasia, Spec. 2 1/2 inches	.....	30
La Favorite Geranium, 2 1/2 inches	.....	40
Potted Plants are all ready to ship. No express order less than \$2.00 billed.		

F. J. ROBINSON, Oak Park, Ill.

BARGAINS

Extra fine, robust plants, 2 1/2-inch pots, of the following at \$2.50 per 100. No finer plants offered. HELIOTROPEs, large-flowering purple and white. FUCHSIAs, Storm King and four fine vars. ARBILIONs, red, yellow and Sony de Bonne. CUPHEA PLATYCENTRA, Cigar flower. PETUNIAS, double fringed choice seedlings. GERANIUMs, double Grant and fine assortment. Extras added to cover expressage on all orders over \$2.50 or over Adams and U. S. Express. Cash with order or one-half cash and balance C. O. D.

JOHN F. RUPP, Shiremanstown, Pa.

BEGONIAS

Argentea Guttata, Pres. Carnot, Metallica,	100	
Thurstonii, 2 1/2 inch pots	.....	\$2.50
Loonyvine (N. Spathuliflora), 2 1/2 in	.....	2.50
Rose Geranium, 2 1/2 in strong	.....	2.50
Tra. Taylor Geranium, 2 1/2 in strong	.....	2.50
Double Petunia, Diver stratum strong	.....	2.50
Russelia Juncea, 2 1/2 in strong	.....	3.00
Ampelopsis Veitchii, 2 1/2 in	.....	2.50
PALM, Latania Borbonica, 2 1/2 in 3 to 4	.....	1.50
..... (2000) (4010)	.....	1.50

THOS. A. McBETH, Springfield, O.

CHRYSANTHEMUMS

We have all the New Varieties and all the Old Ones of Value.\*\*\*

Good Stock Packed Right at Down to Date Prices

\*\*\* CATALOGUE FREE \*\*\*

NATHAN SMITH & SON, = Adrian, Mich.

“Boss” Chrysanthemums.

William H. Chadwick The grandest white novelty of the season. The Yellow Fellow—Winner of \$100.00 Stearns bicyc'e prize. Madeline Pratt—"As pretty as her picture." Distributed March 1st by leading firms and the grower.

Special Premiums Rawson's 'Mums

President Chadwick, Chicago Horticultural Society, offers \$50.00 in prizes for Chrysanthemum Wm. H. Chadwick, at the Chicago Floral Show next November. E. C. Stearns & Co., of Syracuse, N. Y., offer a '98 pattern high grade bicycle for best vase of 12 blooms "Yellow Fellow," at the fall exhibition Central N. Y. Horticultural Society. Open to all, except myself.

GROVE P. RAWSON, 107-109 W. Market St., Elmira N. Y.

TWO STERLING CHRYSANTHEMUMS...

Mrs. C. H. Peirce Merry Christmas

Which every florist must have among his collection for commercial and show purposes. They are worthy of the highest praise, and we do not hesitate to recommend them to every florist. Order now. We will have a large stock ready April 1st, and can fill all orders with satisfactory plants.

Mrs. C. H. Peirce A large yellow flower of good round form and best substance. Beautiful foliage, sturdy short jointed growth, with foliage up to the flower. An excellent commercial variety. Take first bud. Height 30 in. At its best Nov. 6th to 25th.

Merry Christmas The latest Chrysanthemum in cultivation, making it the only Chrysanthemum that can be grown successfully for Christmas flowers; needs no extra care; height 1 1/2 ft. Good stiff stem, large flowers and great substance, of purest white, and full to center. Take terminal bud. At its best Dec. 20 to Jan. 1st.

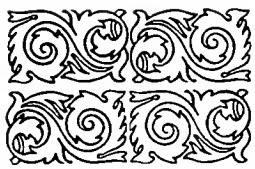
35c each. \$3.50 per doz. \$25.00 per 100.

F. DORNER & SONS CO., La Fayette, Ind.



"WE NEVER SLEEP"

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HARRISON  
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TWENTY TONS OF  
PAPER A DAY  
FORMS CALLED FOR  
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THE BEST

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EAST OR WEST



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PLYMOUTH PLACE  
CHICAGO.....



## Book, Job and News Printers.....



NURSERY AND SEED  
CATALOGUES

The Monmouth County Horticultural Society.

A grand sociable was given by the Monmouth County Horticultural Society at the Red Men's Hall, Oceanic, New Jersey, on Wednesday, March 23. The hall was very nicely decorated and about fifty couples participated in the grand march.

Mr. W. Kennedy sang a song of his own composition which was very well received. The society's paper, "The Monmouth County Busy Body," was read by N. Butterbach and contained, as usual, the latest news. Mr. H. A. Kettel and Mr. Geo. Stanton sang several songs. One of the most prominent features of the evening was a cake walk. Mr. Hugh Birch and Miss Sarah Winton took the cake for the most comical, and Mr. Richard Rogers and Mrs. Theodore Togg for the most graceful performance. It was the best entertainment ever given by the society. Refreshments were served at intervals and at 12 o'clock. Everybody was home before daylight, and on parting they all expressed their thanks to the committee, which consisted of Messrs. John Downing, Hugh Birch and Thos McIntosh, also to the competent floor manager, Mr. Robt. Beatty.

N. BUTTERBACH.

Hail Notes.

Henry Schwarz, of Price's Hill, Cincinnati, was struck by a hail storm on the 16th inst. B. Heshon, of Lawrence, Kan., and the Junction City Floral Co., of Junction City, Kas., also met with slight losses recently by hail.

In order to compile correct statistics the secretary of the F. H. A. desired information concerning hail storms. Every florist is invited to drop him a line when a storm occurs. Address John G. Esler, Saddle River, N. J.

Armstrong's Everblooming Tuberoses

A NEW departure in Tuberoses growth. Flower-bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

For Prices and Particulars ...Address...

LUTHER ARMSTRONG, 3720 Olive St., ST. LOUIS MO.

GLADIOLUS BULBS

WHY not grow your own? I can furnish it large number of half inch bulbs, mixed colors very fine stock at \$1.50 per 1000. Each thousand will contain over 1000 varieties. Lots of 5000 or more sent by express prepaid. This stock runs so largely to white and pink that some florists said it would come to pass for "White and Light."

M. CRAWFORD, Cuyahoga Falls, O.

Table with columns for Gladiolus Bulbs, Size, and Price. Includes items like Very fine mixed, Good mixed, Large Blue mixed, etc.

JOHN FAY KENNEL Grower box 405, Rochester, N. Y.

(Copyrighted)

Kraft's Plant Tonic

For PLANTS, PALMS and FLOWERS

...A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale...

This is one of the greatest preparations for the use of Florists and Plant Growers ever compounded. It gives to the foliage of plants treated the bright, fresh color of healthy, growing vegetation. It destroys all insect life infecting the plant and eradicates scale.

Besides improving the color of the plant, it effects a general betterment of its condition, aiding nature in disseminating and retaining the sap and life of the plant. The Tonic makes the foliage of the plant soft and pliable, and a beautiful bright green.

For sale at Price per bottle, 25 cents. 84 & 86 RANDOLPH STREET, CHICAGO. VAUGHAN'S SEED STORE, 14 BARCLAY STREET, NEW YORK.

COLUMBIA PLANT TUBS..... (Patented.)



MADE OF CYPRESS. NEVER DECAY. NEVER FALL APART.

SUCCESSORS TO HOME RATTAN CO.

THE INVALID APPLIANCE CO. Sole Manufacturers 339-341 Clybourne Ave., CHICAGO

THE MALTESE CROSS BRAND THE VERY BEST OF GARDEN & LAWN HOSE TRADE MARK. Includes an illustration of a man watering a plant with a hose.

Tobacco STEMS DUST EXTRACT

BOTTOM PRICES.

VAUGHAN'S SEED STORE, Chicago. New York.

NATIVE GUANO A COMPLETE AND NATURAL FERTILIZER FOR...

Gardeners and Florists. SOLUBLE, QUICK TO ACT. PLEASANT TO HANDLE.

STANDARD FERTILIZER CO. Inc.

1822 Filbert Street, Philadelphia.

Scollay

Sprinkler...

INDISPENSABLE J. A. Scollay, Maker, 74 Myrtle Ave Brooklyn, N. Y.



VAUGHAN'S SEED STORE, Gen'l Western Agents, 84 Randolph St., CHICAGO.

Everybody is more pleased if you say "saw your ad in the American Florist" when writing.

NIKOTEEN IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE. DOES NOT INJURE THE MOST SENSITIVE PLANTS... KILL AND SAVE THE BLOOMS! QUICKLY DOES IT.

THE BEST FOR ALL Florists' ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE FOR SALE BY SEED STORES... LOUISVILLE SPIRIT CURED TOBACCO CO

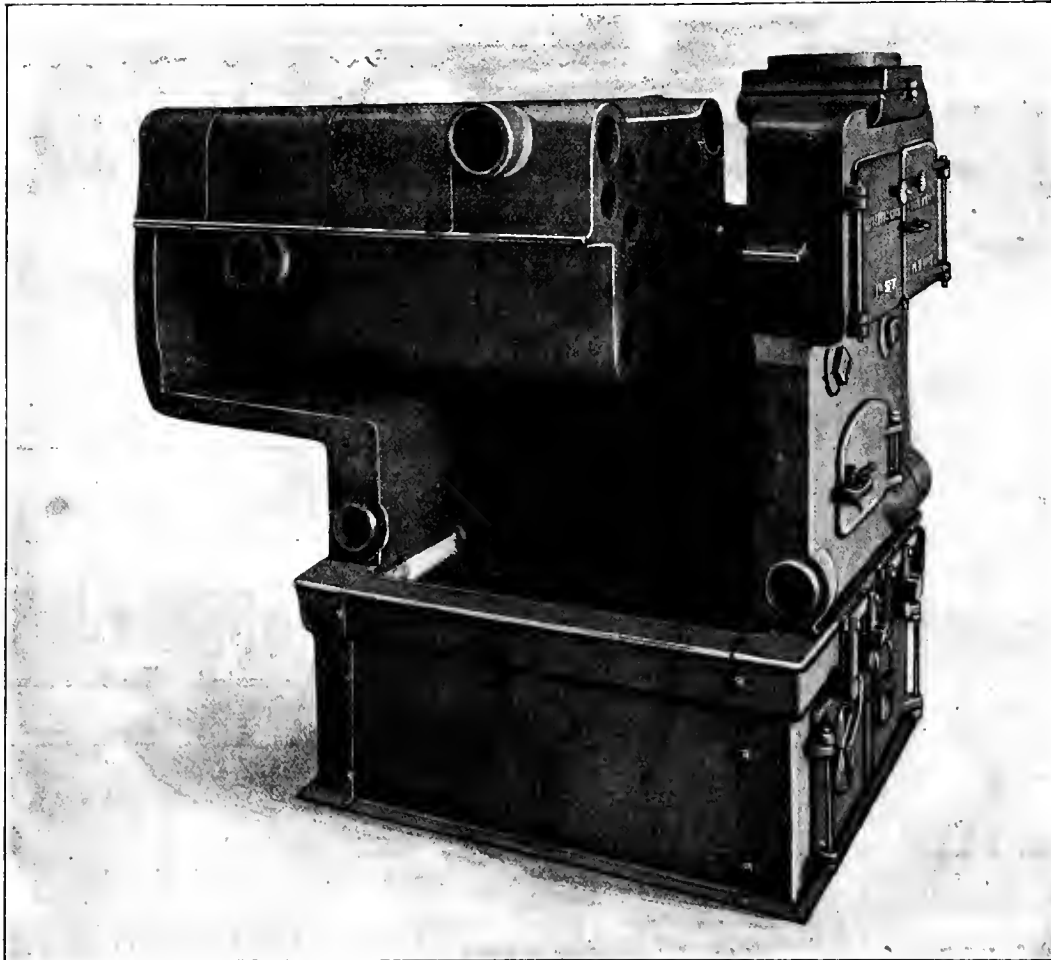
PURE BONE FLOUR. Ammonia 14.5% Bone Phosphate 8.0% PURE DRIED BLOOD. Send for prices and references. GEO. S. BARTLETT, SUCCESSOR TO CINCINNATI, O. Cin't'Desiccating Co. 1255-1257 West Sixth Street.



# HITCHINGS & Co.

Established  
1844

# Greenhouse Builders



and  
largest  
manufacturers  
of

## Greenhouse Heating and Ventilating Apparatus



The accompanying cut  
represents the  
interior of our new

**No. 57  
Sectional  
Tubular  
Boiler**

regarding which we have  
received the  
following letters:

D. Falconer, Rose Grower, of Chatham, N. J., writes us as follows:

I am pleased to inform you that the No. 57 Boiler you sold me last Fall has proved satisfactory in every respect. All that you have claimed for it I have found correct.

I have heated two Rose Houses with it, each 18'6" wide and 160' long, total amount of glass surface 8,000 square feet. I didn't have to push it much when the temperature was 8 and 12 degrees below zero to have my houses 56 degrees. I consider it economical in fuel, easily cleaned and very easy to fire. If I am fortunate in the future to extend my plant, I shall select the same heater.

Your ventilating apparatus is also to my entire satisfaction.

Respectfully yours,

(Signed) D. FALCONER.

I. P. Dickenson, Lettuce Grower, of Morganville, N. J., writes:

In answer to your inquiry as to how I like your New Sectional Boiler, would say that it gives good satisfaction, throws out heat freely, is easy to regulate, and requires very little labor and attention. I have two other sectional boilers, which it is claimed will heat nearly twice as much as yours, but I think yours, the No. 57, will heat them both, and with only one half the amount of coal. The No. 57 is a hummer.

Yours truly,

(Signed) I. P. DICKENSON.

Louis Dupuy, Florist, of Whitestone, L. I., writes:

It affords me great pleasure to tell you that your new sectional Boiler you supplied me last summer, is a boiler far superior to any I have so

far seen in use. It has not been in any way over-estimated, as it does easily all you claim for it. Every man I have had attending to the fires was quick in praising your No. 57 in comparison with the other boilers. Respectfully yours,

(Signed) L. DUPUY.

Anton Schultheis, Florist, of College Point, L. I., writes:

The Sectional Tubular Boiler I received of you last October for my new house, 150x25, with high glass sides, has proved to be all you claim for it. It is economical, easy to regulate, and can be heated to boiling inside of thirty minutes if necessary. I can recommend your tubular boilers where large houses are to be heated. They will do the work.

Respectfully yours,

(Signed) A. SCHULTHEIS.

We give special attention to supplying Iron Frames, and Roof Wood Work, fitted ready for erection by Florist, with the aid of a local carpenter.

## HITCHINGS & CO.,

233 MERCER ST., NEW YORK.

## Hot-Bed Sash.

Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

### Quick Shipments.

We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass.
- 3 ft. 3 in. x 6 ft., 4 " 8 in. "
- 4 ft. x 6 ft., 5 " 8 in. "

Not glazed, 1 3/4 in. thick.

### Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

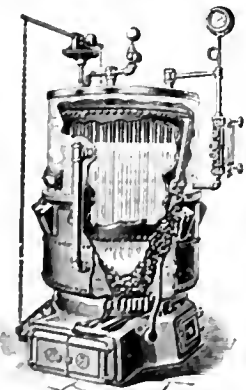
LOCKLAND LUMBER CO.,  
Lockland, Ohio.

Always mention the.....

## American Florist

when writing advertisers.

## —THE— GORTON SIDE FEED Boiler

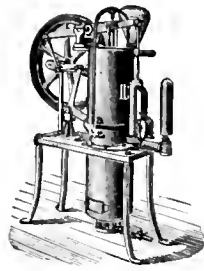


is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

GORTON & LIDGERWOOD CO.  
96 Liberty Street, NEW YORK.

**NEW & SECOND-HAND MATERIAL,**  
purchased from Sheriff, Receiver, and Assignees, sales at less than one-half prices. Pipes and Fittings, Hose, Florida Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Hoops, Light Wrought Iron Pipes, Glass Sash, and thousands of other articles, for sale by  
**CHICAGO HOUSE WRECKING CO.**  
Largest Mail Order Depot for New and Second-Hand Material in the World.  
W. 35TH & IRON STS., CHICAGO.  
Write for our free illustrated catalogues.



# Water

For Greenhouses, Gardens and Lawns in liberal quantities, every hour of the year, whether the wind blows or not.

Improved Rider Hot Air Pump

Improved Ericsson Hot Air Pump

Can be run by any ignorant boy without danger. Explosion impossible. Prices greatly reduced. In use in every part of the world.

RIDER-ERICSSON ENGINE CO.

22 Cortlandt St., NEW YORK.  
191-193 High St., BOSTON.  
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86 Lake St., CHICAGO.  
29-31 N. 7th St., PHILADELPHIA.  
Send for catalogue "A 3."

## Steam & Hot Water Heating

ECONOMICALLY AND PERFECTLY INSTALLED BY

# HENRY W. GIBBONS

134, 136, 138 Liberty Street, NEW YORK, N. Y.

CATALOGUES AND ESTIMATES FREE.

EXPERT ADVICE FURNISHED.

## Wheeler-Stenzel Co.

IMPORTERS AND JOBBERS OF

# Greenhouse Glass

Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

72 Sudbury St., BOSTON, MASS.

## Walworth Construction & Supply Co.

HEATING ENGINEERS

Experience in Hot Water Heating from 1842. And CONTRACTORS

## GREENHOUSE APPARATUS FOR STEAM OR HOT WATER GREENHOUSE BOILERS

Heating Apparatus of Every Description. Small Boilers for Farmers, Steam Kettles, &c. Iron Pipe, Fences and Railings. Cheap and Ornamental.

Contractors for late Fred L. Ames' Greenhouses at North Easton.

100 Pearl St., BOSTON.



**LOUISIANA  
Cypress  
Green House  
Material.**

**RED CEDAR**

Write for Estimates.

Do the American Florist a small favor. Mention the paper when writing advertisers.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS  
SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book  
"CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.

**THE A. T. STEARNS Lumber Co.,**  
Newport, BOSTON, MASS.

## Peat Moss and Jadoo.

ED. AM. FLORIST:— "What is peat moss?"  
X. Y. Z.

The peat moss used in the manufacture of Jadoo is found, it is said, in North Germany; much of which is exported to this country in bales and is quite dry, and is used as bedding in stables, especially in and near the large cities on the seaboard. It is light and spongy, having great absorbing properties. In conjunction with straw for bedding it makes much better manure than does straw alone, absorbing the urine, thus securing more of the essential plant foods than otherwise would be the case.

Peat moss seems to contain all the ingredients necessary to sustain plant life for a certain period, but whether a proper balanced plant food, I do not know, or how long it would keep a plant in a flourishing condition, I have not yet determined. Some of it was used here a year ago mixed with screened coal ashes as a plunging material in a closed frame, and one of the young assistants on the place inserted some carnation cuttings therein a few weeks ago, and he states that they rooted in eight days. He also had a variety of cuttings in, in addition to the carnations, such as begonias, browallia, achyranthes and two American Beauty rose slips, all of which are rooted. The rose cuttings took fully three weeks to root, whereas the succulent soft-wooded cuttings named above rooted in from a week to ten days. I was afraid of the cutting bed fungus, but so far none has appeared. Jadoo could not do any better than that, and the peat moss does not cost half as much. It varies somewhat in price—I have bought it as low as \$10 per ton. Jadoo is recommended for the growing of sweet peas. I would like to know wherein it is better than peat moss.

Peat moss ought to be an excellent mulch for anything, because of its lasting qualities, in California where humus is somewhat lacking, on account, I suppose, of the natural grasses being annual, and so far there has not appeared to be much of an effort made to supply humus to the soil by a system of green manuring. Lime is recommended by agricultural chemists to be used in peat proper, and especially in what is known in America as muck, but whether it would benefit peat moss at all, I have not tried.

I am inclined to think that plain peat moss in the hands of practical gardeners and florists can be used in their numerous operations both outdoors and under glass to great advantage.

It has been said that the time will come when every first-class establishment will have a laboratory attached thereto for the purpose of manipulating formulas for the different specialties in plants grown therein, and I can with confidence say that plain peat moss will furnish a "base of operations" that cannot be excelled.

Judging from the published analysis of Jadoo it has seemed to be weak in potash, and judging from the experience of some growers, it is not a well balanced plant ration, and that is the reason why some plants fail to do well in it. Practical horticulturists with a knowledge of agricultural chemistry could remedy this.

Try plain peat moss in comparison with and where Jadoo has failed, and add with care potash and phosphoric acid to suit; it seems to contain enough nitrogen for a while.  
E. L.

# Herr's



## Experiences Carnations..

WITH



READY NOW

SEND FOR THEM

THEY ARE SENT FREE

## HERR'S SMILAX

\$5.00 per 1000; 75 cents per 100.

Samples 10 cents.

## ALBERT M. HERR

LANCASTER, PA.

When writing please mention American Florist.

## The New White Carnation GENESEE

IT GROWS WELL...IT BLOSSOMS WELL  
IT SELLS WELL...IT IS A GOOD KEEPER  
...SEE AS FOLLOWS ON LAST POINT...

GRAND HAVEN, Mich., March 18, 1898.

Some of the blooms of GENESEE sent to the Grand Rapids Carnation Meeting March 1st are still (18 days after receipt), quite fresh.

GEO. HANCOCK & SON.



**DAN'L B. LONG, SALES AGENT.**

Priced Circular Free.

.....BUFFALO.

Buffalo.

There is very little new to tell this week but a great deal to do. The weather still continues mild and balmy and keeps everybody hustling, both indoors and outside. For the first time in my experience, in this part of the country, we have had thirty-eight species of hardy plants in bloom in the open border previous to March 28. Some plants that frequently do not flower until May are now open.

The condition of Easter stock seems to me to be too forward as a rule and if this summer weather continues for another week, I imagine that much of it will be lost. There are a few good lots of Harrisii lilies in sight, and but a few. Most of the growers have had the misfortune to have diseased stock, some having lost nearly half their stock. At one grower's, whom I visited a short time ago, not only were the bulbs badly diseased but those which were growing were apparently not true to name. However, I presume enough will be found somewhere to fill orders with, if they are not used up by the sun before the time.

Of azaleas there seems to be a good supply, but they have felt the warm wave too, and are in some cases pretty well out. Rebstock has an immense stock of them, but I have not seen them for several weeks and do not know how they are.

Scott and Milley both have large stocks of cinerarias of good salable size. There is the usual amount of cythus, spiraea, etc. Bulbous stock ought to be plentiful, in fact too much so, for narcissi are already showing bloom in the open ground.

The Florists' Club had a well attended meeting on Friday night. The committee having the flower show in charge reported progress, and the schedule will soon be ready. C.

**RUDBECKIA "Golden Glow" (HARDY)**  
Excellent for cut flower purposes in late summer. Strong plants. \$6.00 per 100; \$40.00 per 1000.

**IRIS KAEMPFERI** Strong clumps in ten varieties, labeled as to color. \$4.00 per doz.; \$6.00 per 100.

**Edwin Lonsdale,** Florist, CHESTNUT HILL, PHILA. PA.

Money Order Other Station H. Phila.

**ROSES, VERBENAS, VIOLETS**

Finest Teas and Hybrid Teas clean healthy 10 to 15 inches high. \$4.00 per 100

Verbenas, best colors, 2 1/2 inch pots. 2.00 per 100

Violets, California, well rooted. 1.50 per 100

Cal. Lilies, 5 and 6 inch pots. 10.00 per 100

Invariably at these prices. Cash with Order. **F. WALKER & CO.** Box 316, New Albany, Ind.

**Carnations Chrysanthemums**

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading varieties of 1898 and 1897 as well as the best standard sorts. Address

**H. WEBER & SONS,** - Oakland, Md.

**NEW ARGYLE CARNATION**

A few left at the following price \$4.00 per 100, \$75.00 per 1000....

**STOLLERY BROS.** ARCYLE PARK, CHICAGO, ILL.

# Carnations for Business

A few people grow Carnations for pleasure, but most of us grow them for business. 18 varieties of '98, 15 of 1897. All the Best Standards. \* \* \* \* \*

THE BEST IS NONE TOO GOOD FOR THE AGE IN WHICH WE LIVE.

We have the Best Varieties in the market, many of them in soil, all ready for shipment. Send for prices. They are all right. \* \* \* \* \*

**GEO. HANCOCK & SON, Grand Haven, Mich.**

**Flora Hill CARNATION**

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send a once and get the best stock ever offered \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

**E. G. HILL & CO.,** = **Richmond, Ind.**

**SWELL YOUR BANK ACCOUNT**

By growing **Emily Pierson Carnations**, the most profitable Red Carnations in cultivation. Clean healthy grower, large full flowers with fine stem. Our house, 70x20 feet, from which we have been cutting since September, has 20,000 buds in sight today. We can supply fine rooted cuttings at \$1.00 per 100; \$8.00 per 1000. Cash with order.

**South Side Floral Co., Springfield, Ill.**

**THE BEST OF THE NEW PINK CARNATIONS**

**Mrs. Frances Joost.**

A WINNER EVERYWHERE.

\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. Cash with order.

**C. BESOLD, Mineola, L. I., N. Y.**

Never Fail to say "saw your ad. in the Florist."

**Carnations...**

A few thousands left at prices cheaper than you can steal them

1000 Daybreak	\$1.25 per 100	\$10.00 per 1000
5000 Waver	1.25 per 100	10.00 per 1000
10000 Seattle	.65 per 100	6.50 per 1000
10000 McGowan	.75 per 100	7.50 per 1000
1000 Jubilee	1.50 per 100	15.00 per 1000

**VIOLETS**

We have 20,000 fine strong plants of Marie Louise in flats and pots, guaranteed free from disease. We are loading orders for field grown plants, delivered after July 1st. \$35.00 per thousand. Cash with order.

**LAKE GENEVA FLORAL CO., LAKE GENEVA, WIS.**

**CARNATIONS**

STRONG ROOTED CUTTINGS.

**Scott's, McGowan's, Rose Queen.**

per 100, \$1.00; per 1000, \$8.00.

Hydrangea Otaksa, per 100, \$1.75.

Cash with order. **D. Y. DANENHOWER** 52nd and Woodland Ave., Philadelphia.

**ALBA SUPERBA**

The Gardenia Carnation.

Plants Now Ready \$10.00 per 100, \$60.00 per 1000

**JOHN BURTON,** Chestnut Hill, PHILADELPHIA, PA.

Please mention the American Florist

**ORDERS PLEASE**

All the leading Carnations Now Ready. Per 100

Geranium named our selection only, 2 1/2 in ... \$2.00

Salvia, Clara Bedman, 2 1/2 in. .... 2.00

Little Gem Feverfew, 2 1/2 in. .... 2.00

Colons, 20 best holders, 2 1/2 in. .... 1.50

Lycopodium Dentitatum, 2 1/2 in. .... 1.50

Tradescantia Multicolor, 2 1/2 in. .... 2.00

Alternanthera Auren Nana and P. Major, 2 1/2 in. .... 2.00

**THE MORRIS FLORAL CO., Morris, Ill.**

**WEST ISLIP GREENHOUSES.**

**CARNATIONS.** Rooted Cuttings.

Scott, Parlin, McGowan, \$1.00 per 100 \$8.00 per 1000

Daybreak, \$1.50 per 100 Mixed Geraniums, from flats, strong plants \$3.00 per 100. Mixed Carnations, dry roots of the following sorts. **Alphonse Bonville, Mme. Crozy, Chas. Henderson, Queen Charlotte, Burbank, John White, etc.** \$2.50 per 100. Cash with order.

**E. B. SUTTON, Jr., Babylon, L. I.**

Please mention the American Florist

**NEW CARNATION....**

The largest, bright rich crimson red introduced

**Empress**

Send for price list of above. New and Standard Sorts....

**WM. SWAYNE, Box 226, Kennett Square, Pa.**

A PHOTOGRAPH OF OUR UNNAMED WINTER BLOOMING SEEDLINGS

\$300

American Rose Co.'s

PRIZE

For best Seedling Carnation for Winter Blooming.

Prize Money

will be deposited with the American Carnation Society April 15, 1898 to be awarded by them at the

ANNUAL CONVENTION Philadelphia, February 1899.

Send for circular giving full particulars to

P. O. BOX 422, WASHINGTON, D. C.



\$300

COMPETITION

must be by purchasers of at least

ONE HUNDRED

of our Seedling Carnation Plants

BUT

such purchasers are entitled to use in such competition our seedling plants or seedling plants of

THEIR OWN

creation.

The owner of the WINNER agrees to SELL it to the

American Rose Co.

for the highest bona fide offer which would be accepted....

10,000 strong plants ready April 15th, 1898 in 3-inch pots. Price per 100, \$15.00. Sample plant mailed on receipt of twenty-five cents.

\$300

\$300

THE SEEDLINGS WE SELL YOU ARE FROM HAND-FERTILIZED SEED OF THE SAME KIND.

JOS. B. TOWNSEND, Berlin, N. J.

Dealer in SPHAGNUM MOSS and PEAT. Clump and Sheet Moss for florists' work, Laurel Wreathing and Laurel Branches for decorations in large quantities on the shortest notice.

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

CHAS. CHADWICK,

Lock Box 11. GRAND RAPIDS, MICH.

Say "saw your ad. in the Florist" when you write advertisers.

Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

Flora Hill

AND 25 OTHER VARIETIES, LOW TO CLOSE OUT.....

GRAFTED TEA ROSES, \$15 per hundred.

H. F. LITTLEFIELD, Worcester, Mass.

20,000 CHRYSANTHEMUMS.

Major Bonaffon, 2 1/2-inch pots, \$2.00 per 100 or \$15.00 per 1000; President Smith, Eda Pruss, \$1.50 per 100 or \$12.00 per 1000. Geraniums—the best mixed varieties for bedding. 3 1/2-inch pots, showing buds, \$2.50 per 100 or \$18.00 per 1000; 2 1/2-inch pots, \$2.00 per 100 or \$15.00 per 1000. Cash with order or satisfactory reference.

PAXTON GREENHOUSES,

C. E. Taube, Prop. Harrisburg, Pa.

Always mention the American Florist when you order stock.

IS a much more substantial flower than Daybreak; color a shade or two darker and entirely rust proof. Can be seen at Vaughan, McKeller & Winter-son's every Wednesday and Saturday.

REDUCED PRICES

— Very Fine Rooted —

Carnation Cuttings

Taken from our "Prize" Stock.

MCCOWAN ALASKA ALBERTINI HELEN KELLER ARMAZINDY DAYBREAK

\$2.00 per 100; \$15.00 per 1000.

SOUTH PARK FLORAL CO., New Castle, Ind.

JUBILEE CARNATIONS Rooted Cuttings

I have a fine stock of this peerless variety, also most of the leading standard sorts.

MARIE FOISE rooted runners at special low rates. Write for prices. Will exchange for fruit trees.

W. W. COLES, - Kokomo, Ind.

**Fire Insurance.**

The past winter has demonstrated the fact that even in well built houses, where careful precautions are taken, fires occasionally occur. Few are able to easily stand losses caused in this manner, and very few would care to allow their property to remain unprotected if proper rates could be secured. How, then, can the trade best secure adequate insurance at the least cost?

In a recent address, Governor Mount, of Indiana, stated that the farmers of that state had paid insurance companies \$50,000,000 in premiums and had received in return less than half that amount. He advised them to form co-operative associations and thus save themselves what experience has shown about one-half actual rates. Now, florists pay a still more disproportionate amount, and through co-operation, and through that only, will they be enabled to secure rates which will enable them to carry insurance sufficient to adequately cover their property.

The Florists' Mutual furnishes a solution of the problem. It is necessary in order to place the association on a sound financial basis that the first assessment should be nearly as high as the average rates given by the old line companies throughout the country. But let no member of the trade hesitate on this account, as each one who gives his support assists in making assessments lower.

Although now carrying a larger amount of greenhouse insurance than any company in the country the association has suffered no loss in any of the recent fires.  
W. J. VESEY.



Large Field-Grown Roots in all the Leading Varieties \$5.00 to \$7.00 per 100.

**30,000 DAHLIAS**

Before ordering your Dahlia stock be sure and send for my catalogue of novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Dahlia Specialist, Box 382, Denver, Colo.

**Flower Seeds...**

... For the Trade.

NEW CROP. CHOICEST STRAINS. CLOSE PRICES

Vaughan's Seed Store, NEW YORK. CHICAGO.

**PANSIES**

ROETER'S Prize Pansies; extra fine stock plants from cold frames, in bud and bloom, transplanted in September, plants measure from 2 to 4 inches in diameter, by express \$1.75 per 100; \$1.25 per 100; medium size plants transplanted in October, per 100 \$5.00 per 1000. Cash on order, sample plants free.

PETER BROWN, Lancaster, Pa.

**Two Great Sports**  
**CARNATION VICTOR**      **CHRYSANTHEMUM PENNSYLVANIA**

Undoubtedly the best Pink Carnation in commerce and certainly the most prolific bloomer, perfectly healthy and of vigorous growth.  
Rooted cuttings now ready, \$4.00 per 100; \$35.00 per 1000. Come and see this carnation growing.

The finest yellow for cut blooms or exhibition purposes ever produced. Plants ready March 15, \$5.00 per doz.; \$35.00 per 100; \$250.00 per 1000.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA.

**Chrysanthemum Mrs. A. F. Wienold**

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Bergmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2 1/2-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

CAL. VIOLETS. No disease. Strong runners. 50c per 100; \$4 per 1000. McDONALD & STEELE, Crawfordsville, Ind.

**Chrysanthemum PRESIDENT GRAHAM**

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

**...Primula Seed...**  
to satisfy the most particular buyers.  
**Sinensis fimbriata varieties.**

- a Our Large-flowering London Market Mixture, the packet of 250 seeds for \$1.00.
- b Our English Choice of all Mixture, collected from the very best large-flowering, full blooded stock only, one packet, enough for 500 plants, \$3.00.
- c Rolker's Special Mixture, a good average large-flowering Primula, in mixture or in separate colors, the packet 25c; 1-16 oz., about 1500 Seeds, \$1.50.
- d Double-Flowering, in mixed colors, the packet, 50c.

**Cineraria Seed**  
Cineraria hybrida grandiflora, our large-flowering prize-strain, of compact habit and growth, flowers often measuring 2-3 inches across, of the richest shades and tints, are carried well above the foliage; in short, a strain not to be beaten; the packet, 50 cents.

Tobacco Extract, the best, equal to 200 lbs. of stems. Send One dollar for one gallon tin.  
Sheep Manure, unadulterated, nature's own, dry as bone; send Two dollars for 100 pound bag.  
Waterproofed Sashpaper, ready for use, 38-in wide, the roll of 25 yards, \$2.50.

**Spring Bulbs, Florists' Seeds, Grass Seeds, Fertilizers, Supplies of All Kinds. Send for Lists.**

**August Rölker & Sons, 52 Dey Street, New York.**

**40 Fine Palms Ready For Sale**

FOR \$5.00

- 12 Lantanas... 4-inch pots showing two character leaves
- 10 Kentins... 3-inch pots
- 6 Corypha Australis... 5 inch pots, strong
- 6 Areca Lutescens... 5-inch pots, 3 in a pot
- 6 Areca Lutescens... 3-inch pots, 1 in a pot

All fine clean stock. Packed light, by express

Rooted Cuttings of Lemon Verbena, Salvia Splendens. Strong and well rooted. \$1.00 per 100, \$8.00 per 1000

Colons, Golden Bedder, Nelly Grant and others. 75c per 100. Extra strong \$6.00 per 1000

Cash with order please

**Critchell's**

110 E. 4TH STREET,

Cincinnati, Ohio.

**1898 SEEDS...**

Mammoth Verbena Seeds only \$1.00 per oz.  
Aster Seeds only 1.00 per oz.  
Pansy Seeds only 1.00 per oz.

THE MORRIS FLORAL CO., Morris, Ill.

**Aster Seed**

Simple's celebrated strain of Asters. Finest in the World. Mixed colors, pink, white and lavender. Also a small quantity of pink separate.

JAMES SEMPLE,

BOX 2, ..

BELLEVUE, PA

# ROSES

THE KIND TO PLANT

## GOOD ROOTS and GOOD TOPS

A large stock of healthy Brides, Bridesmaids, Morgans, Meteors and Perles in 2½ and 3½-inch pots. Just the stock for planting. Moderate prices quoted on application.

...THE...

**John Henderson Company,**

ROSE GROWERS,

Flushing, N. Y.

## NEW FORCING ROSE MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2½-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

## ROSES...

PERLES.....	} Pots 100 Pots 100	2½ \$2.50 3 \$3.50
METEORS.....		
BRIDESMAID.....		
BRIDE.....		

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

## 300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers. Moon Vines, \$2.50 per 100.

Send for prices.

**The National Plant Company, Dayton, Ohio.**

New American Rose

**MRS. ROBERT GARRETT**

As one of the syndicate holding stock in this rose we offer first class plants, from 2½-inch pots, to be delivered on and after March 15, 1898, at the agreed price of \$3.50 per doz., \$25.00 per 100, \$225.00 per 1000.

**AMERICAN ROSE CO.  
WASHINGTON, D. C.**

## Memorial Rose

(Rosa Wichuriana)

Strong field-grown plants,  
\$50, \$75 and \$100 per 1000

**SAM'L C. MOON,**  
MORRISVILLE, Bucks Co., PA.

# SCOTT'S ROSES!

## AMERICAN BEAUTY

NOW READY TO SHIP

Plants from 2 1-2 inch pots, - \$6.00 per 100; \$50.00 per 1000

**Ulrich Brunner.** Strong plants of hard wooded cuttings, from 2½-inch pots, \$4 00 per 100; \$35 00 per 1000. This is gilt-edged stock, and has a reputation of its own. Last year we could have sold 10,000 plants after our stock was sold. Sample for 10 cents.

**Bride, Bridesmaid, Perle des Jardins, Meteor and Carnot,** from 2½-inch pots. Write for prices.

**New Dwarf Canna Gloriosa,** without exception the most useful and beautiful Canna yet introduced. Plants, from 3-inch pots, \$2.00 per doz; \$12 50 per 100.

**Canna Flamingo,** dormant roots, \$8.00 per 100.

**Canna Paul Marquant,** dormant roots, \$2.00 per 100; \$15.00 per 1000.

**Canna Chas. Henderson,** dormant roots, \$2 per 100; \$15.00 per 1000.

\*\*\* ORDER NOW \*\*\*

# Robert Scott & Son,

19TH AND CATHERINE STS.,

Mention the  
American Florist

Philadelphia, Pa.

## ROSES ROSES ROSES

For immediate planting, all the best standard varieties in A-1 stock, at reasonable prices, now ready, including CLARA WATSON and PRESIDENT CARNOT.\*\*\*

## CARNATIONS

All the leading varieties, including LILY DEAN, the best and freest blooming of all the fancy varieties, also FLORA HILL, C. A. DANA, MAYOR PINGREE, Etc., in extra selected stock; also all the new ones of present year's introduction, at advertised prices.

## CHRYSANTHEMUMS

All the very best new and standard varieties in extra fine stock.

## CANNAS

The cream of all the good ones on the market.

For Special Prices on Large Orders, write to

**JOHN N. MAY, SUMMIT, NEW JERSEY.**

# ROSE PLANTS

	Per 100	Per 1000	Per 100	Per 1000
Brides - - - - - 2½-inch, \$3 50	\$30.00	3-inch, \$4.50	\$40.00	
Bridesmaids - - - - - "	3.50	" 4.50	40.00	
Meteors - - - - - "	3.50	" 4.50	40.00	
Perles - - - - - "	3.50	" 4.50	40.00	

All Stock Guaranteed to be first-class. Ready April 1st.

**M. A. HUNT FLORAL CO.**

P. O. Box 235.

GEO. E. HUNT, Manager.

TERRE HAUTE, IND.

**ROSES** OWN ROOTS. DORMANT. FIELD GROWN

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet  
Yellow Rambler (Aglaia)  
Hybrid Perpetuals.

Mosses, Hardy Climbers  
and Madam Plantier

These plants are very strong and well shaped.  
Prices on application. Address

W. F. HEIKES, Manager.

1308-1310 Unity Bldg., - CHICAGO, ILLS.

**FINE ROSE STOCK**

In 2 and 3-inch Pots.

Write for prices of kinds you want.

12 Best Varieties of Carnations in 2-inch pots,  
ready to plant out. Write for prices. Send 50c for  
samples. Fancy Smilax in 2-inch pots.

GEO. A. KUHL, Pekin, Ill.

**N. Dames**

of the firm of  
**Vanderhorst & Dames...**

BULB GROWERS

Lisse and Heemstede, Holland,

is on his round trip through the United States. To spare time, we beg to send all letters and communications up to May 15, care of

Knauth Nachod & Kuhne,  
13 William St., New York.

Give us the list of your wants and we will send you our lowest quotations for real good stuff.



IMPORTERS

**JAPANESE PLANTS, BULBS, ETC.**

At lowest prices. Small orders filled from expert-mental garden Columbia Road Dorchester, Mass. Wholesale catalogue, 1918, free to the trade.

JAPANESE NURSERY,

Office: 272 Boylston St., - BOSTON, MASS

**BULBS** For FLORISTS., For SEEDSMEN.

VAN ZANTEN BROTHERS,  
HILLEGOM, - HOLLAND.

**Dahlias...**

500 KINDS.

Get my Catalogue and Prices.

H. F. BURT, Taunton, Mass.

**Brides. "GRAFTED" Maids.**

Beauties, "Own Roots."  
Fine Plants from 2 1-4 and 3 inch Pots.

ROBERT SIMPSON,

PRICES ON APPLICATION.

687 Bergen Ave., Jersey City, N. J.

**...ROOTED ROSES CUTTINGS**

No scrub wood used. All stock thoroughly rooted and carefully packed when sent out. Send for samples...

	Per 100	Per 1000	From 2 1/4 inch Pots
			Per 100 Per 1000
AMERICAN BEAUTIES, Rooted Cuttings, \$2.50	\$22.00	.....	.....
BRIDES .....	1.50	12.50	.....
BRIDESMAID .....	1.50	12.50	.....
METEOR .....	1.50	12.50	.....
KAISERIN .....	1.50	12.50	.....
PERLE .....	1.50	12.50	.....

Terms cash with order. Plants from 2 1/4-inch pots ready May 1st.

**J. A. BUDLONG, - STATION X, CHICAGO, ILL.**



**Vase for the Cemetery**

The Clara Cemetery Vase

(Patent applied for by Mrs. C. W. Pike.)

A RECEPTACLE FOR FLOWERS, LONG NEEDED FOR THE CEMETERY.

The Clara Vase for use at the Cemetery is a handsome as well as one of the most useful articles ever placed on the market. It is absolutely a new thing and takes the place of all the old tin cans, bottles and various old truck that are usually found in the cemetery for holding flowers, and prove such a disgrace where everything else is beautiful and ornamental. It is composed of solid glass and stands about twelve inches high. The lower end is sharp pointed so it can be imbedded about six inches in the ground and stand firm. It will hold sufficient water to keep the flowers fresh and sweet, and will accommodate flowers with long as well as short stems. The Vase is bell-shaped and the top has a diameter of about five inches. The Vase is sold at a very low price and is within the reach of all classes. It is very strong and well made and can not be broken by rough handling.

Prices, delivered to railroad or express companies in Chicago:  
One dozen ..... \$3.50  
Three dozen ..... at 3.25  
Five dozen ..... at 3.00

Samples sent on receipt of fifty cents (50c.) each.

These Vases will retail in the market for from 50c to 75c each, thereby giving the dealer a profit of over a hundred per cent. on his investment. Address all orders to

**BASSETT & WASHBURN,**  
WHOLESALE FLORISTS. 88 WABASH AVE., CHICAGO, ILL.

**Jardinieres, Pots AND Pedestals**

ADAPTED TO

**Florists' Use.**



Artistic Shapes  
and Decorations.

Write us for Illustrations  
and Prices....

**BURLEY & TYRRELL, 42-44 Lake St., CHICAGO.**



BEST  
QUALITY

# Holland Bulbs

LOWEST  
PRICES

## JAC. WEZELENBURG

SASSENHEIM, HOLLAND.

Address up to May 1 in care of KNAUTH, NACHOD & KUHNE, 13 William St., NEW YORK. ❀ ❀

### CANNAS NEW AMERICAN Finest in the World Our Novelties for 1898

	Per 100
DUKE OF MARLBORO, darkest crimson.....	\$30.00
DUCHESS OF MARLBORO, only pure pink..	30.00
TOPAZ, only absolutely large pure yellow...	50.00
LORRAINE, pink, edged white, fine.....	30.00
MAIDENS BLUSH, delicate flesh color.....	15.00
GOLDEN PEARL, yellow, nearly double.....	30.00
CUBA, finest and largest gilt edged.....	40.00
GLORIOSA, very dwarf, March delivery.....	12.50
PHILADELPHIA, glowing crimson.....	15.00
CHAMPION, largest, glowing scarlet.....	\$5.00 each
KLONDIKE, only large pure orange.....	\$2.50

Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

#### OUR CANNAS IN FRANCE.

To Messrs A. Blanc & Co.  
Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Crimson, etc. Signed CH. MOLIN.  
Lyon, France, Jan. 3, 1898.

#### ASPARAGUS SPRENGERI

Fine plants in 6-inch pots, ready for 8-inch, \$5 per 12.

#### AMARYLLIS....

Vetch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

#### CALLAS

Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each

#### DAHLIAS

11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, GILT EDGE, \$15 per 100. Send for special list.

A. BLANC & CO., Philadelphia, Pa.

New Dwarf   
**CANNA**  
Pres. Cleveland  
(PFISTER)

The greatest advance in the Canna line as yet, either foreign or native. It has the largest trusses and flowers of the whole tribe, of a rich deep shade of scarlet, and is the freest variety to bloom introduced yet. The habit is dwarf, as well as vigorous. ❀ ❀ ❀ ❀ ❀ ❀ ❀

We are Headquarters for the Genuine stock of it.

Strong Pot Plants at 50c each; \$5.00 per doz.; \$35.00 per 100, to the trade.

DENYS ZIRNGIEBEL  
NEEDHAM, MASS.

## 100,000 CANNAS

Strong dormant roots in leading varieties; orders received until April 10th at..... \$3.00 per 100, \$25.00 per 1000  
**TUBEROSES**, Pearl and double Italian..... \$7.50 per 1000  
**RICHARDIA ALBA MACULATA**..... \$3.50 per 100  
**DAHLIAS**, strong whole roots in leading varieties, of Cactus, large flowered and Pompon..... \$6.00 per 100  
**LILIUM AURATUM**, 7 to 9 inches, \$4.00 per 100; 9 to 11 inches..... \$6.00 per 100  
**LILIUM SPECIOSUM RUBRUM**..... \$5.00 per 100  
**LILIUM SPECIOSUM ALBUM**..... \$7.00 per 100  
**PÆONY OFFICINALIS**, best early-flowered red, strong roots..... \$7.50 per 100  
**BEGONIA REX**, in 20 fine varieties..... \$4.00 per 100  
**GERANIUMS**, large stock best bedding varieties..... \$3.00 per 100, \$20.00 per 1000  
 Big stock of pot Roses, Palms and other greenhouse plants.  
 Large supply of strong, dormant, nursery-grown Roses, 2-year roots, in H. P., Climbers and Moss. Large-flowered Clematis, Hydrangea Paniculata Grandiflora, etc.  
 If you have wants in Fruit and Ornamental Trees, Shrubs, etc., we have 'em.

THE STORRS & HARRISON CO., Painesville, Ohio.

### PEACOCK'S DAHLIAS FOR 1898.

- Snow White Cactus Dahlia "La Favorite" The only pure white Cactus Dahlia to succeed in America; large, fine form, long stems and good substance, strong plants, each \$1.00; doz. \$10.00
- "Wilhelm Miller" Immense Size, Richest Imperial Purple, strong roots, each 75c; \$7.50 doz.; strong plants each 50c; doz. \$5.00.
- "Clifford Bruton" The Finest of all Yellow Dahlias. \$25.00 per 100.
- "Iridescent" The nearest approach to a Blue Dahlia. Strong roots, each 40c; doz. \$4.00 100 \$25.00
- "Cyclops" New Cactus Dahlia. The freest bloomer in the class. Strong roots, each 75c, strong plants 50c each; doz. \$5.00.
- Cactus Dahlia "Xanthia," Pompon Dahlia "Carol," Show Dahlia "Purity." Strong roots, 75c each; strong plants, 50c each; doz. \$5.00.

### NEW SINGLE DAHLIAS FOR 1898.

- Little Dorothy, Ada, Edina, Irene, Luxury, Vernie. 50c each; doz. \$5.00.
  - The New Fragrant Dahlia "Novelty."
  - "Folia Variegata" The New Variegated-Leaf Dahlia. Each 30c; doz. \$3.00.
- For a complete and accurate description of all the leading new and old varieties send for our new illustrated, descriptive Catalogue.

W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.



## BLOOMERS FOR FLORISTS....

MAY BE HAD BY USING CUSHMAN'S  
SEEDLING GLADIOLUS BULBS. ❀ ❀ ❀

Our 2nd size, Seedlings and Mixed, are full of business for garden planting. Superb in coloring, delicate in markings, endless in variety. A light mixture.  
 We offer until sold 2nd size bulbs, \$6.00 per 1000; 5,000 to one party for \$25.00.  
 A few 1st size left at \$10.00 per 1000.  
 MAY, 1st size, \$2.00 per 100; \$15.00 per 1000, 2nd size, \$1.50 per 100; \$12.00 per 1000

CASH WITH ORDER, PLEASE.

CUSHMAN GLADIOLUS CO., - Euclid, O.



# For those who Want the best in Easter Stock

I call especial attention to the splendid BRUNNERS, JACQS and BEAUTIES which I am now receiving. These blooms are exceptionally fine and will please the best trade. Also a full line of other Roses, Carnations, Violets and Bulbous Stock in choicest grades.

**THOS. YOUNG, Jr., Wholesale Florist,**  
43 West 28th Street, NEW YORK.

HEADQUARTERS  
FOR.....




## Asparagus Sprengerii and Asparagus Plumosus

Both of these varieties can be grown to GREAT PROFIT on benches, planted out for cut sprays. Those who have not grown them in this way will be astonished at the quantity that may be cut.....

Ask for our  
Spring Trade List...

## Robt. Craig & Son.

49th and Market Sts.,  
PHILADELPHIA, PA.

		
Asparagus Sprengerii, 2 inch.....	100	1000
" Plumosus, 3 inch, extra fine	\$6.00	\$50.00
	8.00	75.00
DRACENA TERMINALIS.		
The best commercial Dracena, 2½ in.	8.00	75.00
In extra fine condition for growing OD.		
Mosella Rose. Extra strong 2 inch,	4.00	35.00
Ready for shipping for spring sales This is a very fine bloomer in pot and unsurpassed as a budding rose		
CARNATIONS.		
FLORA HILL, the best White.....	5.00	40.00
VICTOR, the best Pink.....	5.00	40.00
LILY DEAN, the best Fancy.....	5.00	40.00
MAYOR PINGREE, the extra fine yel-		
low.....	5.00	40.00
		
<p>Also Triumph, Jubilee, Mrs. MacBurney, Armazindy, Wm. Scott, and all the desirable introductions of this year. Write and tell us your wants and we will give you as low prices as anyone for FIRST-CLASS STOCK</p>		
		

**KELSEY'S GALAX LEAVES**

and Leucothoe Sprays  
Green for

**EASTER.**

Brilliant Green and Bronze-

They are now too well known to need much description

For use with violets the small green leaves have found enormous demand.

Galax Leaves are to be seen at all the best floral decorations particularly at funerals, weddings and parties. For Easter, and to supply the demand during the **Summer Months**, I have placed a very large supply in cold storage, packed in original cases, and can ship promptly from Boston on order by mail or wire.

**PRICES...**

Galax - Large or small, either color, per 1000 \$1.00, less than case \$1.25 per 1000.

Leucothoe Sprays - per 100 \$1.00, per 1000 \$8.00.

Case A - 5000 Galax assorted sizes and colors, \$5.00

Case B - Same, with 200 Sprays, \$7.00.

Case D - 5000 Large Bronze, \$5.00.

Case E - 5000 Small Bronze, \$5.00.

Case H - 5000 Large Green, \$5.00.

Case I - 5000 Small Green, \$5.00.

Case L - 500 Leucothoe Sprays, \$5.00.

Order cases by letter, or larger quantities by thousands. Be explicit in shipping directions. Telegraph orders save time. Large orders shipped direct from my Highlands Nursery in North Carolina, till about April 1st. Supplied by all wholesale florists, or address telegrams, letters and orders to the **Introducer**.

**HARLAN P. KELSEY**

1150 Tremont Bldg., Boston, Mass.



**Try Some Easter Business ..**

**.. WITH Ford Bros.**

We are handling regularly the product of a large number of reputable growers and can suit you as to quality and price

**Good Lilies Will Not Be Plenty**

We can fill orders for the **RIGHT KIND** if booked early **ATTEND TO IT NOW**

**READY** to quote favorable prices on all bulbous flowers in any quantity. Two hundred thousand of the finest Marie Louise Violets in New York market. Also Roses, Carnations, Mignonette, Sweet Peas, Etc.

**FORD BROS.**

111 W. 30th STREET,

**NEW YORK.**

**FOR EASTER....**

The following Stock in healthy growing condition. . . . .

*Lantana Borbonica*, from 5-in. pots, full of roots, 18 in. high, average 7 leaves; *Kentia Belmoreana*, from 4-in. pots, 10 to 18 in. high, 5 to 6 leaves; *Arcaea lutescens*, 18 in. high, 5 to 6 leaves, above 10 cts. each, or \$3.50 per doz. *Chamerops excelsa*, 15-in. high, 8 to 9 leaves, 25 cts. each; \$2.50 per doz. *Cocos flexuosa*, 5 to 6 ft. high fine decorative plants, \$1.50 each. *Pandanus utilis*, from 4 in. pots, 15 in. high, 12 leaves, 20 cts. each; \$2.00 per doz. *Nephtrolepis D. Laurens*, excellent plants from 5-in. pots, 16 to 18 in. across, 12 leaves, 50 cts. each; \$5.00 per doz., height of plants given above pots.

For Spring and other Stock see following numbers of the *FLORIST*.

**N. STUDER, Anacostia. D. C.**

**LUCAS PAINT**  
THE BEST FOR  
PRESERVING & BEAUTIFYING  
NO WATER NO BENZINE  
BUT PURE OIL AND  
PERMANENT PIGMENT

**Alternanthera. ROOTED CUTTINGS.**

Fine stock P. major and A. nana 90c per 100; \$6.00 per 1000. Ready April 15.

**HOFFMEYER, Box 31, Carnegie, Pa.**

**Seed Sweet Potatoes**

Yellow Jersey and Yellow Newmarket choice stock, \$2 per barrel or five barrel at \$1.87 per barrel

**J. W. DAVIS, - - Morrison, Ill.**

ESTABLISHED 1866 **EMIL STEFFENS** SUCC. TO N. STEFFENS. AND STEFFENS BROS.  
MANUFACTURER OF  
**FLORISTS WIRE DESIGNS & SUPPLIES**  
335 EAST 21<sup>ST</sup> ST. NEW YORK CITY.

**300,000 ROSES 300,000**

Fine, Young Plants, From 2 1/2-Inch Pots.  
Following List, \$2.75 Per 100; \$25.00 Per 1,000.

- |                     |                    |                 |
|---------------------|--------------------|-----------------|
| Agrippina           | J. B. Varrone      | Princess Sagan  |
| Bridesmaid          | Mme. Fernet Ducher | Tennessee Belle |
| Chronatella         | Marechal Niel      | Marie Lambert   |
| Empress of China    | Prairie Queen      | Yellow Hermosa  |
| Mme. Jos. Schwartz  | R. Marie Henriette | Bon Silene      |
| Marie Van Houtte    | Folkstone          | Bride           |
| Wichoriana          | White Hermosa      | Golden Gate     |
| The Queen           | Baltimore Belle    | Lucullus        |
| Triumph Fernet Pere | C. Souper          | Marie Gallot    |
| Coquette de Lyon    | Duchess Brabant    | Meda            |
| Andre Schwartz      | Mme. Elie Lambert  | Purple China    |
| Mermet              | Mme. Welche        | Safano          |
| Frigeneuse          | Marquis Vives      | Louis Philippe  |

Moon Vines, \$2.50 per 100. Rubra Begonia, \$3.00 per 100.

Many other varieties of Roses and full general stock. Write for Prices.

**THE NATIONAL PLANT CO., DAYTON, OHIO.**

**MacMichael's Sulphur Blower ..**  
The Best on Earth. PRICE, \$5.00.  
All orders received before April 25th will be filled for \$3.00. Cash with order.  
PARK RIDGE, Ill., Feb 11, 1898.  
MR. MACMICHAEL, Chicago.  
Dear Sir: I have used your Sulphur Blower and find it a grand improvement over the bellows. It does the work better, quicker and more even.  
Yours truly,  
EMIL BREITNER.  
H. MacMICHAEL,  
956 N. Leavitt St., CHICAGO.

FOREST GLEN, Ill., March 26, 1898.  
MR. H. MACMICHAEL, 956 N. Leavitt St., Chicago  
Dear Sir: Your sulphur blower is simply itself its work being rapid and perfect. An incredibly small quantity fills the house like a dust cloud, giving to well high every leaf of every plant its evenly distributed mite. Nothing seen comparable with it. Pardon its universal use.  
Yours respectfully, BRANT & NOE.

# E. G. HILL & CO.

RICHMOND, IND.

## Magnificent Boston Fern

2½-in. pots, \$6.00 per 100; 2-in. pots, \$5.00 per 100.

## Fine Clothilde Soupert Roses

3-in. pots, \$4.00 per 100; 2½-in. pots, \$2.50 per 100.

## Mosella, "The Yellow Soupert"

Unequaled for market purposes.

3-in. pots, \$5.00 per 100; 2½-in. pots, \$3.00 per 100.

## PRES. CARNOT

Nothing finer for pots.

3 in. pots, \$5.00 per 100; 2½-in pots, \$3.00 per 100.

## American Beauty

Ready April 10th.

Fine stock. 2-in. pots, \$5.00 100.

## Bride and Bridesmaid

Elegant stuff.

2½-in. pots, \$2.50 per 100; \$22.50 per 1000.

## EVERBLOOMING ROSES

In only the very finest varieties.

\$2.50 per 100; \$22.50 per 1000. This is the best offer ever made in Roses, considering varieties and qualities.

## Ulrich Brunner

2½-in pots, \$4.00 per 100.

We offer of the NEW ROSES of last year (1897) the following magnificent bedding varieties, viz.:

### MURIEL GRAHAM

a marbled sport from Catherine Mermel;

### JEANNIE CABANA

one of the most distinctly colored Roses ever introduced;

### Mme. CADEAN RAMEY

a fine two-colored rose;

### FERDINAND BATEL

an improved Eugenie Verdier;

### Mme. JULES GROLEZ

rose color;

### HYBRID TEA

August Wattine and Emilie Gouin

Two fine Teas. All at \$10.00 per 100.

## CHRYSANTHEMUMS

All the certificated novelties of the year. Also MRS. O. P. BASSETT (the Yellow Robinson.) \$20.00 per 100. See our trade list for prices.

### 100 Choice Chrysanthemums

one of a kind, including last year's novelty, \$4.00.

### 1000 Choice Chrysanthemums

In 100 sorts, \$20.00.

A grand collection of

## Dwarf Perennial Phloxes

including the finest and latest French and English novelties, \$4.00 per 100.

## 12 New "Crozy Type" Cannas

including Prest. Cleveland and Tarrytown for \$3.50.

12 Dammann's newest Cannas for \$3.00.

## PINK SWAINSONA

A grand companion for the white variety. \$4 per 100.

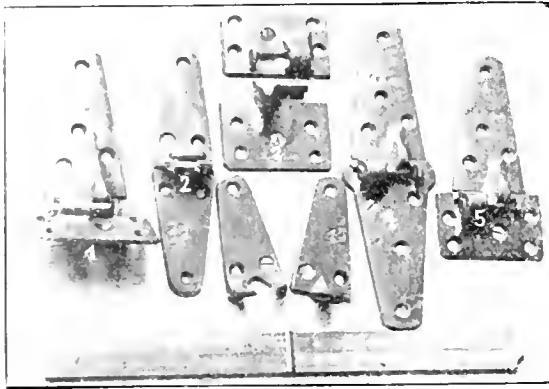
## 12 EXTRA FINE.....NEW GERANIUMS

for \$3, a collection that will charm and surprise every grower.

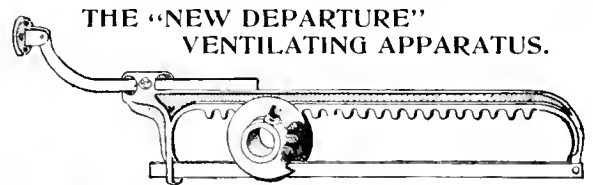
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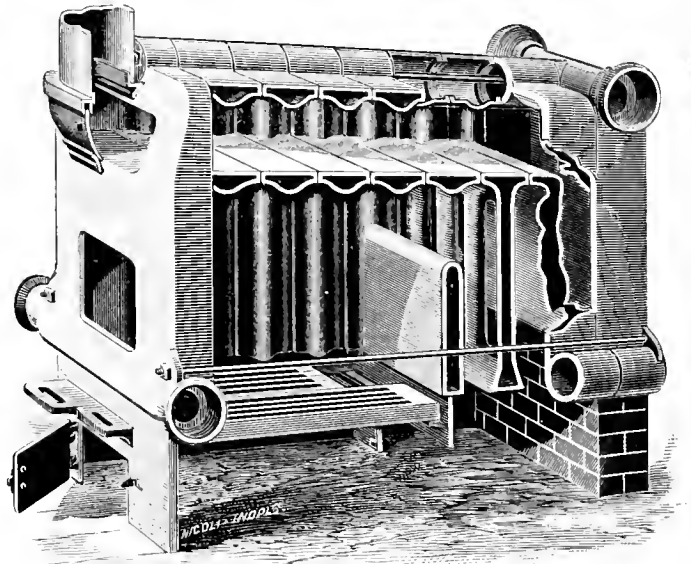
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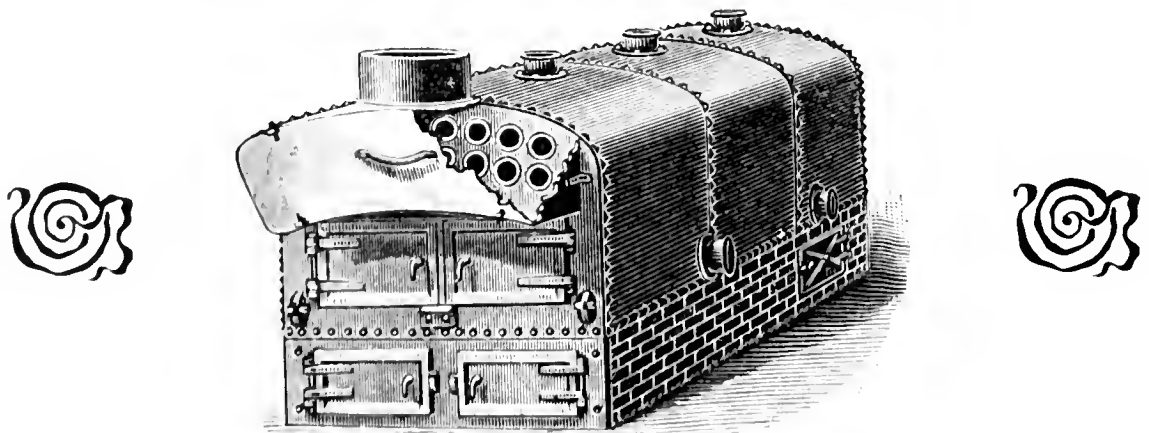
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Therefore we representatives of the largest class of living beings upon the surface of the earth assembled in conference in and among the bowers of this beautiful Island, do hereby affirm, that the said Hammond's Slug Shot is a most dangerous article used in every direction to our hurt and damage, and warn each and every family of our species to be aware of and depart from any TREE SHRUB, vine flowering plant or vegetable if one or any of them value their lives or health, for while the said Hammond's Slug Shot does no harm to our old enemy man or to his animals, the said Slug Shot is in man's hands the most destructive of weapons against our race.

- Subscribed this 25th day of September, 1897
- Aphis—The Green Fly.
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  - Doryphora 10 L.—The Potato Bug.
  - Oniscus.—The Snow Bug.
  - Tyloderma T.—The Strawberry Crown Borer.
  - Pieris Oleracea } The Cabbage Worms.
  - Pieris Rapæ }
  - Agrotis.—The Cut Worm.
  - Monostegia Rosoe.—The Rose Slug.
  - Paleacrita V.—The Cankerworm.
  - Nematus, Vent.—The Currant Worm.
  - Gateruca Xan.—The Elm Tree Worm.
  - Diabrotica Vit.—The Cucumber Beetle.
  - Eriocampe, C.—The Pear Tree Slug.
  - Anasa T.—The Squash Bug, and others by the score.

WITNESSES to above signatures:  
Conotrachelus, N.—The Curculio  
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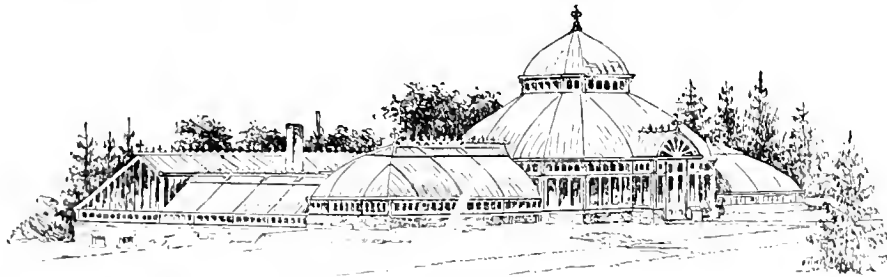
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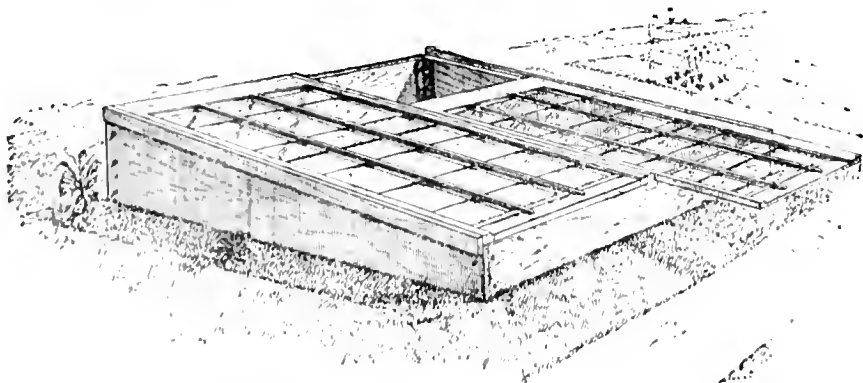
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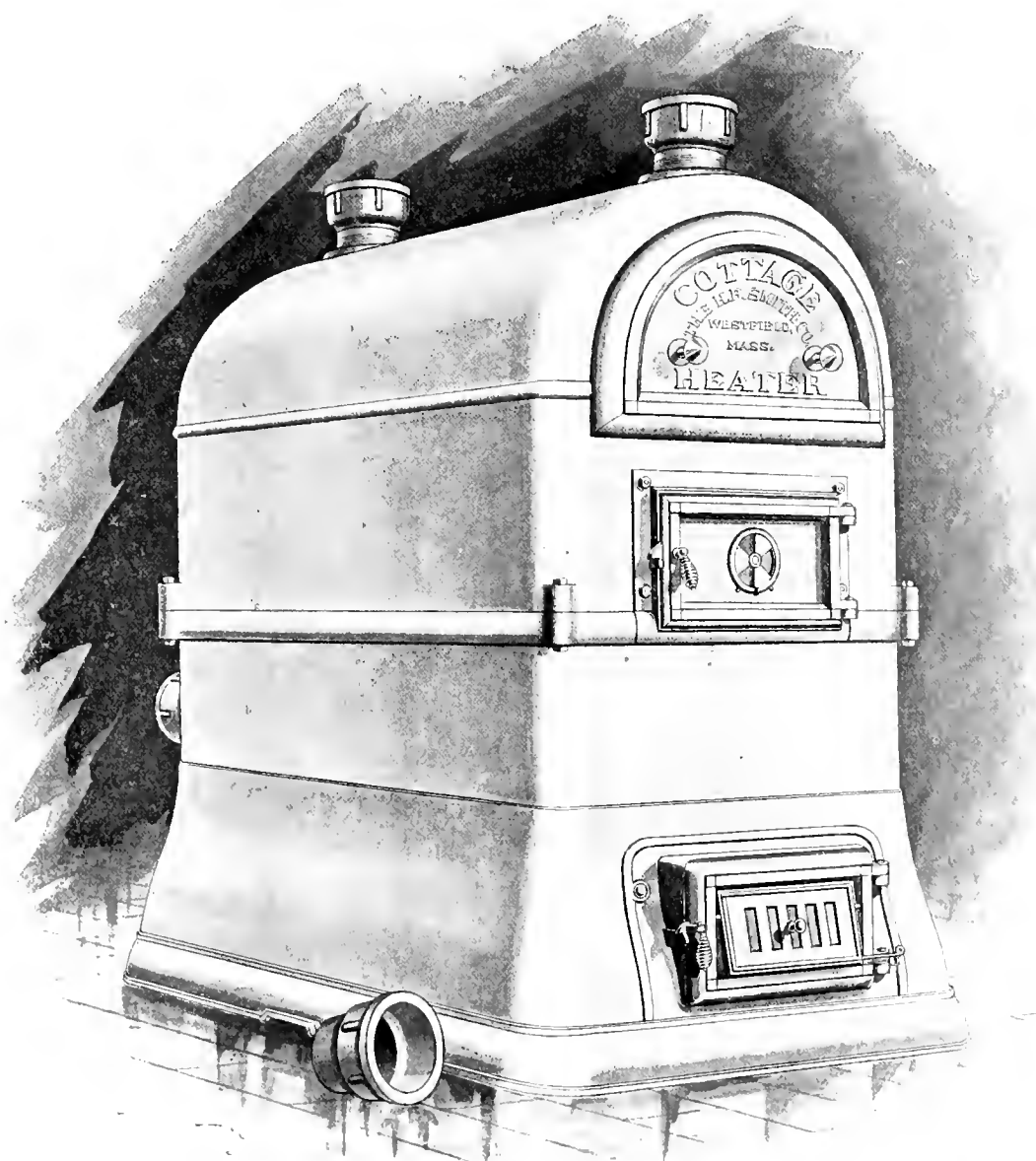
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Johnson & Stokes,

The Market Gardeners' Seedsmen

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Mention this paper



Now if this little mite I have endeavored to describe so minutely, and with such plain and homely language, is the cause of the lily disease, and I believe it is, surely there is some insecticide that will kill this pest without doing injury to the bulb, either while growing or in a dormant state. I believe the surest and best way would be to treat the dormant bulb with some insecticide that would kill the germs of life of the mite in whatever shape it might exist in the bulb, if that can be done without injury to the bulb, and I believe it can.

I will now close, leaving the subject much as I found it—in mystery; but hope that those that are to follow after me will solve the problem. WM. K. HARRIS.

#### JOHN WELCH YOUNG'S VIEWS.

Our good president has asked me to prepare a short paper on the lily disease. I say "good" to show that I bear no ill-will towards a man who compels me to dwell on so painful a subject.

I am not of a scientific turn of mind, and know absolutely nothing about the cause of the disease. I only know that it is inherent in the bulbs when received here, and that efforts to grow the plants out of it by liberal treatment have so far proved fruitless.

I have grown lilies in a small way for a number of years, and had finally passed through the stages of hitting Easter with the crop and of getting the flowers in town without bruising before I met the disease. About that time I was talking lilies one evening with Mr. Battles. He asked, in that deferential sort of way that our great men have of addressing their smaller brethren, which variety I favored. I blundered through my insurance theory that longiflorums, though more costly to grow and less prolific of bloom, were safer because then untouched by disease. I asked what kind he liked. "I prefer longiflorum," Mr. Battles replied. Since then longiflorum it has been, for we want what is healthy and sells well.

Longiflorum has always done well with me until this season. I was induced to change from my usual importer and purchase the bulbs from another firm. This firm is of high standing and they sent me nice looking bulbs. Despite careful handling disease carried off over 1000 out of 1200 bulbs. I went to the firm and made a fuss. They were sympathetic, but decidedly skeptical about my abilities as a grower. In fact, they reminded me of the seedsman who, when he was asked why certain of his tuberous begonias had failed, promptly answered, "Was it the fault of the bulbs or the man? Use cocoanut fibre."

Morally we all have a claim on these bulb importers, but legally none. As the thing stands to-day we are simply being robbed by the Bermuda lily growers, not only of the first cost of the bulbs but of much valuable time and space.

It seems to me the duty of our club to stop this robbery. Let us pass a resolution requesting every member to insist on a written guarantee that all bulbs be free from disease. Mr. Mills thinks this should be amended to cover imported stock of every kind, that whatever a salesman says of his stock he subscribes to in the name of his firm. This will send the importers to the Bermuda and other growers with a demand for a similar guarantee, and if they don't like it, let them keep their stock.

BAYBON, Md. Carl Beers opened a branch of his establishment on Columbia street April 2.

#### Inspiring Gathering at Washington.

The banquet given at the Ebbitt House on Wednesday evening, March 16, to the Executive Committee of the Society of American Florists by their fellow members in Washington was a fitting climax to the week's proceedings. The atmosphere of the national capitol was the proper stimulant for the broad, aggressive policy inaugurated by the committee of our great national association, and nowhere else in the world could the event have taken place under circumstances and amid surroundings so inspiring and appropriate.

Among the guests at the table sat a member of the President's Cabinet, Hon. James Wilson, Secretary of Agriculture, whose manliness and sincerity has brought him closer to the hearts of the American people than perhaps any other member of that honorable body.

The position of toastmaster was excellently filled by J. H. Small, Jr. Mr. Small, in opening the after dinner exercises, spoke a hearty welcome to the guests and expressed his full sympathy with the aims and work of the S. A. F. Particularly complimentary was he toward his fellow townsman, Mr. W. F. Gude, who had been elected to preside over the society and whom he called upon to respond to the toast, "The Society of American Florists and Ornamental Horticulturists."

After referring pleasantly to the fact that he found himself on this occasion in the dual capacity of host and guest, Mr. Gude spoke as follows:

A taste for flowers creates the demand. In comparing the status of the business to-day with what it was twenty-five years ago, who can say but that it has increased greater than almost any other business and when it is estimated as to the extraordinary numbers of people employed in its various branches, it is easily to be seen that it forms no small factor in the support, maintenance, and education of many hundreds of thousands of human beings that make up the working element in our country. Therefore, it is important from many standpoints that the organization exists, and this Executive Committee have upon them a duty of greater importance than may be at first imagined.

Washington, which should be the great center in this country in art, literature, architecture and indeed in floriculture, has had much attention attracted towards it by reason of a controversy that has been going on between some of our local florists concerning the relations of the greenhouses of the United States Government and the those of the florists in a producing as well as a distributing sense, and it may be possible that I have been somewhat criticised, as an officer of the national association, for not taking a very active part in the animated discussion that has been carried on, which has resulted, as I at first expected, and now realize in considerable correspondence, the use of many unguarded words, and the publication of many extraordinary exaggerations. If the love of flowers is a cultivated taste, then every little flower must increase the desire to have. Such as have been distributed gratis to hospitals, churches and to some of the ladies and families of representative men, have only been the means of creating a desire that has reverted to the financial gain of every florist in the district, so instead of the extraordinary losses that have come, as has been represented the whole amount distributed daily if divided up among all the florists

in the District of Columbia would be less than a dollar to each one engaged in the business.

In conclusion, President Gude spoke in complimentary words of Superintendent Smith, who by his long service and by his steadfast loyalty to those engaged in the florist business had shown that there exists nowhere a better or more faithful friend to the florists of Washington, and deprecated the disposition to criticise him in connection with these recent agitations. He expressed the wish that harmony might soon be restored, and that prosperity might come to all.

A mighty volume of applause greeted Secretary Wilson, who was next called upon. He spoke of the universal inborn love of horticulture which, as the people learn more of its refining influence, is encouraged to begin earlier and earlier in life and he predicted that the time is not far distant when the cradle and the schoolhouse will be decorated with flowers as well as the altar and the grave. The association of flowers helps to high ideals; they cheer and revive; they develop that which makes the world better, and help to fit us for that other world, of which flowers and florists will form so important a part. Speaking of the relations of our national government to floriculture and horticulture, he pledged himself to do anything in his power to conserve the best interests of the florists during his term of office, and assured them that one of the highest honors conferred upon him since he came to Washington is the confidence of the American florists.

Secretary W. J. Stewart, of the S. A. F., was next called upon and spoke of the good work of the national society which has let in the light, and to whose influence is due so much the proud position held by American floriculture to-day, and was followed by Treasurer H. B. Beatty, who was beaming and witty as he expressed his thanks and appreciation of the courtesy and hospitality of the Washington brethren on this memorable occasion.

Next came Thomas Chalmers Easton, D. D. Dr. Easton, by the way, quietly drops the D. D. when he goes out to dinner and becomes "just one of us." He declared that he felt himself only in his true sphere when among flower lovers. His ancestors, he said, had all been florists for many generations and he was "the only stray sheep in the flock." But there is no flower so sweet, so priceless, as true "American patriotism," which he would take as the text of his remarks. Then followed an address, or oration, rather, of which, it is safe to say, the equal had rarely been heard by anyone present at that table. The wildest enthusiasm prevailed while he talked and great applause followed the conclusion of this unexpected treat.

Ex-President Adam Graham, who was next called upon, waxed eloquent as he eulogized the high privilege of membership in the organization over which he had presided during the past year and the nobility of purpose which dominates its counsels and impressed his hearers with the conviction that all the eloquence is by no means confined to the D. D.'s.

Ex-President Wm. R. Smith, superintendent of the Botanic Gardens, pleaded inability to express himself in words; and said that he little thought when years ago, he had rocked the toastmaster, Mr. Small, in his cradle, that the time would come when that gentleman would have the power to make him speechless. He regretted that Secretary Wilson had the misfortune to be born in Scotland instead

of America, for otherwise he might have been in the White House. Mr. Smith concluded with a high compliment to the S. A. F. and graceful acknowledgment of what he had learned by his affiliation with it.

"The Ladies" was the toast assigned to Mr. E. D. Hay, who, with anecdotes and sentiment, witty and serious, soon proved that he was thoroughly acquainted with his subject.

Mr. Benj. Durfee, the next gentleman on the toastmaster's list, gave a most entertaining, satirical account of the controversy over the disposition of flowers grown at government expense, which has been agitating some of the local florists, which he thought would cease to be an issue of importance after Easter Sunday. Referring to the presence of Mr. W. R. Smith, he said: "Here, too, present with us is our youthful boss of the lesser Kew—a lesser Kew only because of a niggardly congress and a torpid public. How earnestly and nobly he has labored through all these many years. Disappointment has never checked his ardor or soured him, and the hope, I believe is still unquenchable within him that by some as yet unknown means, the pulse of the people may be quickened to secure a botanic garden the peer of any in existence, as it is now being quickened to build a navy equal to the best."

Messrs. E. D. Smith for the "Chrysanthemum," E. M. Wood for "The Hub," E. H. Cushman, J. G. Esler, G. M. Kellogg, W. W. Coles and Robert Kift were severally called upon, each giving a good account of himself and the festivities closed at a late hour.

The decorations of the table and the room were magnificent and unique in design and none of them came from the government greenhouses.

[The appearance of the above has been delayed over two weeks owing to the pressure of advertising and numerous seasonable articles.—Ed.]

#### Cluster Bunches.

For all occasions where bouquets are required the loosely arranged cluster has taken precedence over the more formal set bunch. The gradual evolution of the business together with the quantities of first-class long stemmed roses now so common, has brought about this welcome change. Roses alone are not now considered sufficient for the up-to-date bunch and the floral artist is given great latitude in its construction. The accompanying illustrations show a few examples of simple arrangements loosely tied together, none of the roses being wired.

The buds are gathered up and placed, but not tied, one at a time, being firmly held by the hand until almost the last, when a piece of wire binds them all firmly together. A very pretty combination is a cluster of Brides with a spot of Gontiers or Bon Silene a little to one side of the center. If tied with narrow white ribbons, and a strand or two of pink to which may be attached by the same colored ribbon a few of the small buds, the effect is very pretty.

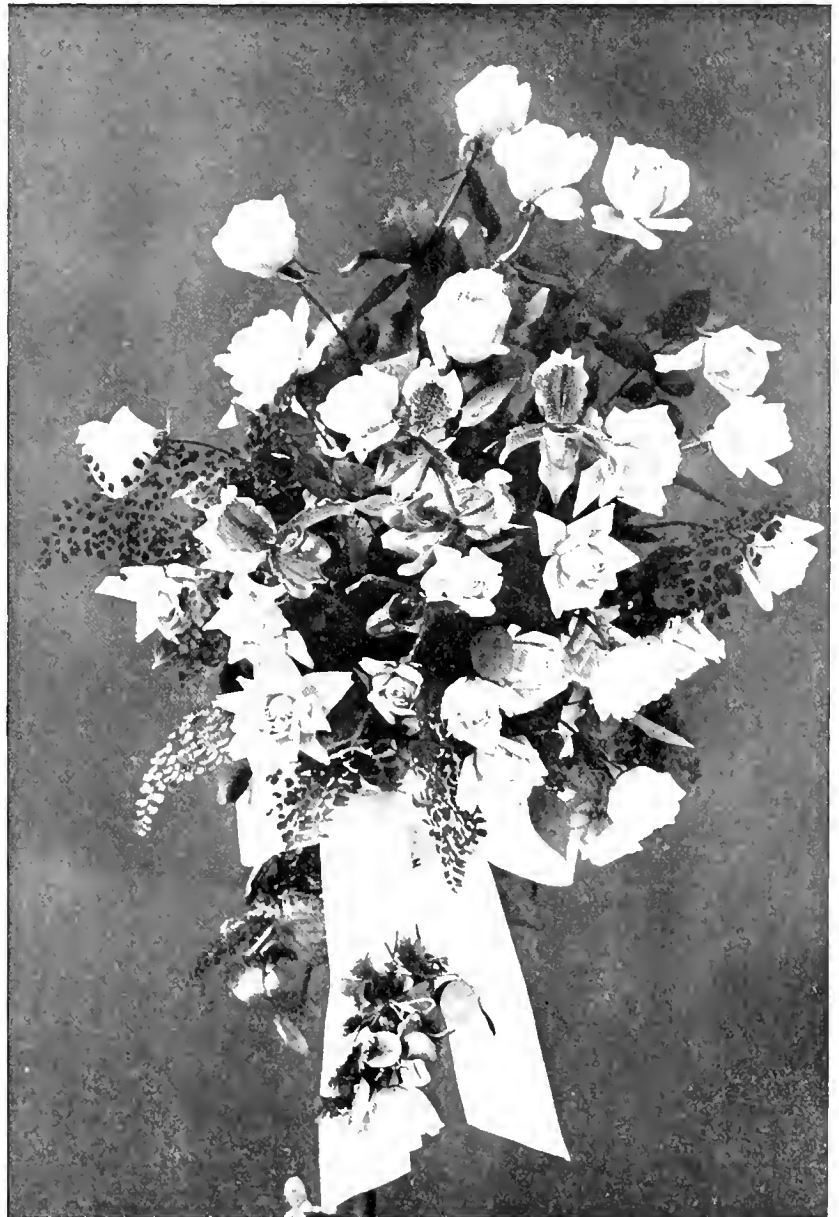
Cypripediums work in well with roses, Meteors and cypripediums making a very pretty effective cluster. Mignonette and cypripediums tied with green ribbon is very odd and sure to attract attention. Long stemmed American Beauties with the thorns removed, tied about midway of the stems with a bunch of 100 or more double violets and good broad ribbon is

generally received with great favor by the average debutante.

Cattleyas and other orchids with lilies of the valley or alone, make elegant bouquets and of course are the most expensive of the lot. K.

neither want friends nor business that the wire may bring."

"Whew! What airs since you got to be president of the Philadelphia club! You ought to set those remarks to poetry."



BRIDESMAID ROSES AND MIGNONETTE.

#### Our Telephone.

"Now, central, please connect us with W. K. Harris, of Phil—what's that you say? The one they call the Bard? Yes, the same. Hello, Mr. Harris. Is that you?"

"Yes, but don't forget this is Easter week and I'm busy."

"Glad to know it. Well this telephone of yours is a great convenience for us; we want to have a little talk with you about the Easter plants."

"That's all right. A telephone is a great help to business and a social blessing in bringing one in contact with his friends at a distance at all times except Easter week; then it is a nuisance, because we

"I could do it, but I haven't got time. Poetry runs in our family. My daughter and one of my sons are beginning to write a little poem once in a while. Go on, now, what would you like to know?"

"What are you running on for Easter this year?"

"Oh, we have about the usual line of stock: Azaleas, lilies, rhododendrons, lilacs, genistas, hydrangeas, Crimson Ramblers and so on. We've had a fine lot of azaleas but there are too many of them around. They're too cheap, and this interferes with the price of other flowering plants, but I'm in hopes the high duty will reduce the quantity on our shores this year and stop foolish compe

tion somewhat. We find rhododendrons sell pretty well as Easter plants."

"What varieties are most popular?"

"Oh, any good, strong, bright color goes. Kate Waterer is a pretty good color. John Waterer and Michael Waterer are both good. Sappho is a nice light one. Sigismund Rucker I like, but it gives a little difficulty to carry its buds sometimes. This year it is fine with us. Everestianum is one of the best. It always makes a good plant with plenty of buds. William Austin is a rich, beautiful color and Glennyanum is all right. Then there's the blue one, Postuosum; it's almost as good as an orchid."

"Are you having your share of the Bermuda lily trouble?"

"They're the meanest lot I ever grew. A few of them are passable, but none too good. The Japanese longiflorums are fairly healthy but the Harrisii are in awful shape."

"Do you find any disease on the Japanese longiflorum bulbs grown in Japan?"

"Yes, sir; some quite bad, but not nearly so much as in the Bermuda grown. Last year only one or two in a hundred showed, but we see strong traces of it in quite a number this year and a few are as bad as they can be. Did you ever see the insect or 'mite' that does the mischief? That is, I think he's the cause of it. He works right at the base of the root and will bore right into the bulb."

"How is that discussion on the lily trouble coming on in the Philadelphia club?"

"Say, wasn't that a great idea; start up the thing with a lot of big words and then not take hold! They tried to have some fun with me at the last meeting, but I don't get annoyed when I am rattled. I'd a notion to throw the gavel at them one time. They're a hard crowd to handle."

"You mentioned lilacs and genistas a few minutes ago. Are they still in it as Easter plants?"

"Not genistas; they don't want them, but we grow a few. I don't like to discard them altogether. Hydrangeas are gone up as Easter plants too. In lilacs, Charles X is the best single purple and Mme. Legraye the best single white. The double varieties would be desirable, but they are a little costly yet."

"Are you trying anything new?"

"Yes, we put in a few Spiraea Anthony Waterer. It is a splendid thing outside, you know, but for forcing it is doubtful. The color is not bright enough; alongside of azaleas it looks dull. We have some Bougainvillea Sanderiana that were planted out last summer, and in lifting we nearly killed them. Bougainvilleas want to be kept in pots for a year or two. There is always a right and a wrong way. You've got to learn to grow even a geranium. Then we have a great house of dentzias in full bloom. They're a beautiful sight."

"Imported plants?"

"No, sir. I grow them myself, from cuttings. These plants are three to four years old. Crimson Rambler is one of the winners among the newer things. Some growers who found they were going to be a little late have been driving their Ramblers too hard and have got the flowers bad color. Ours are all right. We kept them cool until two weeks before Easter when we put them into a temperature of 60°. We have a few Yellow Rambler, but it's no good."

"What can you tell us about ornamental stock besides Easter specialties?"

"Well, Pandorus Veitchii is our great specialty yet. You know we were the

first to popularize this plant in quantity. Then we are heavy on oranges. They are full of bloom now and are a beautiful sight. Those that we wish to fruit for next fall we planted out in open ground last summer. Planted out they make good sturdy growths that will flower well in spring and the check in lifting also helps to throw them into bloom. These plants, for next fall's sales, we keep inside from now on."

"Do you thin out the fruit on these orange trees?"

"No, we allow them to carry all that nature gives them. The more fruit the better we are satisfied. Speaking about fruit, you know I'm trying to get up a stock of pineapples. I think they will take. There are a number of varieties, green and variegated. When in fruit they are grand as decorative plants and will last in beauty in a window of a dwelling house for two or three months, in a temperature of about 70°. Their price has stood in the way of them so far, but we can get fruit fit to cut in two years now where it used to take them ten years."

"Is that so? How do you manage it?"

"Oh, plate glass, you know. They want a tropical heat; 80° won't hurt a pineapple."

"Are you ready to tell your fellow craftsmen how to grow naturally branched rubbers yet?"

"Now that question becomes a little personal, as it affects my private interests, but I will tell my competitors some time in the near future, and when I do I don't believe many will be able to do it as I have in the past. Rubbers have sold well this year. We are all down to small plants; not a large rubber on the place. I suppose you have heard that we have made a good thing of putting up potting soil in neat little half-peck grape baskets and supplying it to the retail stores for their customers. I'd just as leave sell dirt as I would plants. Good bye."

#### Paris.

The annual Parisian Agricultural Fair held for the second time in the spacious machinery hall at the Champ de Mars, the only remnant of the big exhibition of 1889, was opened March 11 by the Minister of Agriculture. Two days previous to the opening, when the thermometer had marked the coldest night of the winter and at the same time we had a pretty good fall of snow, some fears were expressed for the success of the fair. The cold, however,



AZALEAS AND FORCED SHRUBS AS EXHIBITED IN PARIS.



lasted only one day and the weather brightened up again to the satisfaction of all interested in the fair.

The machinery hall being about 475 yards long and 140 yards wide gives a covered superficial area (without any pillar) of, broadly speaking, 14 acres with a gallery around the hall measuring four acres. There is therefore no lack of room for the 2000 exhibits. The sight from the gallery over the whole show is grand indeed and as it would be too great a demand upon the space of your paper to give a list of even the most interesting things, we shall proceed right to the horticultural section.

Vilmorin-Andrieux & Co. cover more ground than the other firms together and their display of itself constitutes a fair sized exhibition. The arrangement of their products is this season particularly attractive. They show us a tall pyramid of hyacinths twenty-four feet high with two other somewhat smaller pyramids which produce capital effect. The spikes composing them are all first-rate and the combination of colors highly creditable. Below the hyacinths, the pyramids are well ornamented with nicely demarcated rows of narcissus, jonquils and of brilliant hued yellow, white, crimson and rose tulips, such as Pottebakker, Prince of Orange, Joost von Vondel, Standaard and Cottage Maid, etc. After these rows comes a nice edge of *Ionopsidium acaule* and further down encircling the base of the pyramids is a charming bed of primulas, cinerarias, calendulas, lilies of the valley, freesias and other flowers serving to relieve the stiffness which the hyacinth spikes display. Close by the same firm exhibits a fine bed of large flowering cinerarias bearing blooms of immense size, and a bed of wallflowers including all the different colors usually found in that species, which latter bed is nicely margined with *Primula obconica grandiflora fimbriata*.

Besides the above flowers Vilmorin & Co. also show a fine collection of gourds and squashes, roots, various vegetables and all the different grasses and cereals in sheaves with their ears, spikes or pods. Mention must also be made of their display of sprays of southern grown trees and shrubs such as eucalyptus, mimosa, *Cytisus proliferus*; *Genista monosperma*, polygala, *Grevillea rosmariniflora* and other kinds. We must also call the attention of the florists to their fine plants of *Primula Chinensis*, giant strain, to which they will add next season a distinct new variety, *P. Chinensis marmorata*.

L. Paillet, Croux & Son and H. Defresne have the finest collection of forced shrubs, amongst which the most conspicuous are: *Andromeda*, azaleas, *Chamaecerasus rosea*, *Cerasus Wateri*, *Clematis Standishi*, *Cydonia Japonica aurora*, *Deutzia gracilis*, *Exochorda grandiflora*, *Forsythia Fortunei*, *Genista floribunda*, *Magnolia alba spectabilis*, *M. Lennei*, *M. Halleana*, *M. Soulangiana*, *Malus baccata*, *Paeonia arborea nigricans*, *P. Stuart Low*, *P. Elizabethi*, *Prunus Sinensis*, *P. triloba*, *P. Pissardi*, *Rhododendron Agamemnon*, *Ribes sanguinum*, *Spiraea Thunbergii*, *S. prunifolia*, *Staphylea colehica*, *Syringa persica* and *S. Charles X*, with different double sorts and viburnums.

Moser shows a collection of hardy open ground shrubs, such as *andromeda*, *Pernettya mucronata lilacina*, with berries of various shades, and a lot *Aucuba Japonica*.

Millet has as usual a fine display of violets including *Viola sulphurea*, of a



PAN OF HYACINTHS AND LYCOPODIUM TRIMMED WITH CREPE PAPER.

sulphur color, and *Viola pubescens*, a novelty with a brilliant yellow hue, but small flower. This lot also includes *Princesse de Galles* and *La France* the two largest single violets, *Armandine Millet*, striped leaved, *Admiral Avellan*, of a curious reddish color, and other kinds.

Georges Boucher, one of our best clematis and rose growers, exhibits a splendid collection of *Lilacs Charles X* and other single and double flowered sorts in pots. The finest single white seems to be *Marie Legray*; the best double white, *Mme. Lemoine*, and best double lilac *Michael Buehner*.

Leveque has also a good group of lilacs and roses.

Gaulier shows a bed of a new strain of cinerarias with strange, pale colors, mostly pink, rose and coppery red like the viscaria. We understand that the entire stock has been sold to Vilmorin and will be introduced to the trade in the fall of 1899.

Dalle's exhibit comprised some excellent warmhouse plants, anthurium, vanda, *odontoglossum*, *nepenthes*, etc., grouped in an effective way around a big phoenix.

The displays of other firms are of little importance to the readers of your paper.

PARISIAN.

HARTFORD, CONN.—The annual spring exhibition of the Connecticut Horticultural Society was held on April 5, 6 and 7, at Putnam Phalanx Armory.

#### Crotons.

Crotons are exceedingly useful as decorative plants, and it is to be regretted that they are not more generally used by our florists; their varied hues far surpass any of those autumnal effects which artists are so fond of painting. They are not only fine decorative plants for winter work, but in the summer season they are equally as effective for bedding out purposes.

There are so many varieties suitable for both purposes that it will perhaps suffice if I enumerate a few of the best. For indoor work I would recommend *Reedii*, *Dayspring*, *Madame Seilliere*, *Mortii*, *Johannis*, *Ancitumensis*, *Carrieri*, *Lord Belhaven*, *Disraeli*, *Lady Zetland*, *Hamburyanus* and *Chrysophyllas*. For outdoor planting the following will be found reliable, *Baroness James De Rothschild*, *Dayspring*, *Interruptus*, *Aurea maculata*, *Fasciatus*, *Multicolor*, *Lady Zetland*, *Veithei*, *Rubra variegata*, *Evansianus*, *Mooreana* and *Queen Victoria*.

They can be propagated from cuttings put in sand, or by ringing, the latter plan I prefer, as it enables much larger tops to be taken than could possibly be done from cuttings. They should, if rung in March, have made a growth of from two to four feet by the end of September. In order to grow them on successfully, it is necessary as soon as they have rooted through the moss, which usually takes about twenty days, to take every particle of moss carefully away, then either pot them while on the plants or cut them off

and place them in a close propagating box until they have taken hold of the soil, when they should be transferred to quarters where they can have more air and light; it will then be necessary to keep them potted on as often as they may require it, in a compost consisting of good fibrous loam, sand and bone dust.

During the time between March and September, which is the season they make their growth, it is necessary to keep them in a moist atmosphere with a temperature of from 80° to 90° during the day and 70° to 75° at night. During the first three months of their growing season, only sufficient ventilation should be given to prevent them from making a weak growth and at no time should ventilation be given which will reduce the temperature below 75°. A house with a southern aspect is best adapted to them, which should be kept shaded until the end of September, when they may be gradually exposed to the sun.

The stock plants after the cuttings have been removed can be planted out in the nursery during the summer when they again will furnish another batch of cuttings by the fall. Another way of utilizing the stock plants is to cut them down to within three or four inches of the pots, then shake all the soil from them and reduce the roots so as to be able to get them into considerably smaller pots than they have been grown in, when if given similar treatment to that recommended for the young plants it will be found that satisfactory results will be obtained.

A syringing with a solution of tobacco extract, in the proportion of one 2-inch potful to two gallons of water once a week will be found an excellent preventive against mealy bug and scale, two pests which they seem to be particularly subject to.

With reference to outdoor planting I would suggest the advisability of plunging the pots, as it will be found that after having been taken up in the fall, the risk of losing their lower leaves will be reduced to a minimum.

D. C.

#### To the Members of the S. A. F. and O. H.

Upon the eve, as we are, of another annual meeting of the Society of American Florists and Ornamental Horticulturists, I may be pardoned for addressing our fellow members and all interested a few thoughts pertinent to the organization and its approaching meeting.

But a few years ago a few men engaged in the business came together and discussed the feasibility of forming an organization so as to unify and encourage the development of floriculture in our country. Prior to this time the progress was slow and extremely selfish. Each grower reaped no farther than he personally sowed. He had no ideas beyond those that had come into existence by his own endeavors or chance experiment, and every infant idea thus obtained was feebly nurtured in a single nursery.

A very small but earnest representation were present at the first meeting; at the last meeting there were five hundred members in attendance, every one interested in some way in the advancement of the association. Five hundred is a small proportion of the eight or ten thousand engaged in the business to which the association applies.

It is a liberal organization and extends its invitation to no particular class, but to every honest worker in every branch of industry that directly or indirectly

bears upon floriculture or horticulture; the professional botanist, theoretical or practical, the tiller of the soil, the grower of trees or plants, the raiser of flowers of every variety; the builder of green-houses, the manufacturer of heating apparatus for the same, the maker of sashes and means of lighting conservatories, the potter who shapes the pots for plants, from the simplest clay molding to the most expensive vases; the wire worker who is such an able assistant in the formation of beautiful and unique designs; the sellers and the buyers, and the merchantmen who have attained wealth and reputation in our line of business; all are welcome. So that, although much of benefit has resulted from the legislation of those who are now members, it is yet of great importance that there should be still a larger percentage than 5% engaged in the work which is, admittedly, not only for the benefit of the profession itself, but for every individual admirer of the resultant efforts of skill and energy.

It is useless to argue a thing so apparent as the advantages of this society.

It should be accepted as an axiom, which as we have all learned in the school books, "needs no proving."

One of the first objects is to create and encourage a taste for flowers. This necessarily increases the demand; the demand naturally spreads abroad prosperity to our fraternity.

As in union there is strength, it has caused a bond of fraternal sympathy to spring up in our midst, and individual ideas have all been placed in the common pool for the benefit of each other, so that by it the interest of every one has been advanced in a most appreciable manner. It has not been local in its work but national, and its influence has gone into legislation and has brought to the attention of the lawmakers of the country many signal points in the matter of the tariff that has been of incalculable advantage. At the session soon to be held at Omaha, there are many matters of the greatest importance to be considered and upon which it is necessary to have the very best opinions from the practical men of our organization.



CROTON MADAME SEILLIERE.

Omaha is a most hospitable city and its people are generous always in extending the glad hand to all who assemble there in meeting and convention. There is an advantage, too, in having the meeting so far west as Omaha, as it will be the means of giving an impetus to the trade west of the Mississippi, where there is so much fertile soil especially adaptable to flower growing. To those who have not been as far west it will give them an opportunity of visiting some of the interesting cities en route to and from Omaha, and will no doubt be most pleasant in every particular.

I therefore urge upon every member of the association to make his arrangements so as to attend this meeting, and wherever it is possible to do so, for him to extend the invitation to all of his fellow workers who are not yet members, as once in attendance upon a meeting it will be such an event that it will be impossible to remain away from subsequent meetings.

WM. F. GUDE.

### Carnations.

In reading over the papers, trade and amateur, it sometimes seems as if florists had a great and grand contempt for nature and her methods of dealing with plants. To a certain extent this is all right, as we violate nature's laws by forcing our stock under glass, where it requires and should receive special treatment.

Sub-watering is one of these special treatments, and the indoor culture of carnations during summer for the elimination of rust is another. Both of these should and will no doubt be experimented with to a considerable extent the coming summer.

None the less there are advantages in the outdoor culture of carnations during the spring and summer months that it is simply impossible to obtain under glass. One of these is good honest rain water straight from the clouds. There is an element in rain that is conducive to the health and building up of vegetation. An element that can not be obtained from any other form of watering. Just what this element is I am not scientist enough to know (in fact I do not think scientists themselves know), but that it is there the proper use of our eyes will give us abundant evidence.

Another one, and possibly the greater of the two, is the abundance of air continually circulating around and among the plants day and night. This is a great aid to life and vitality, and a producer of root action, such as it is impossible to obtain in the confined atmosphere of a greenhouse, no matter how well it is ventilated.

If any grower has a plot of good ground for the planting of carnations outdoors, by all means plant them there. The little vitality lost in the replanting next fall is made up ten-fold by their outdoor life during the spring and summer.

Like everything else, there are two sides to this question, and unless a grower has good soil and a plot of ground big enough to give the carnations room and proper cultivation, grow them inside as being the lesser of two evils.

My own experience with the soil I am favored with is that the results in fine flowers, as well as the number produced, will be at least 40% in favor of those grown outdoors over those grown under glass. Perhaps fine flowers is not the proper expression, as those grown under glass will give as fine flowers (not one whit finer), but not anywhere near the

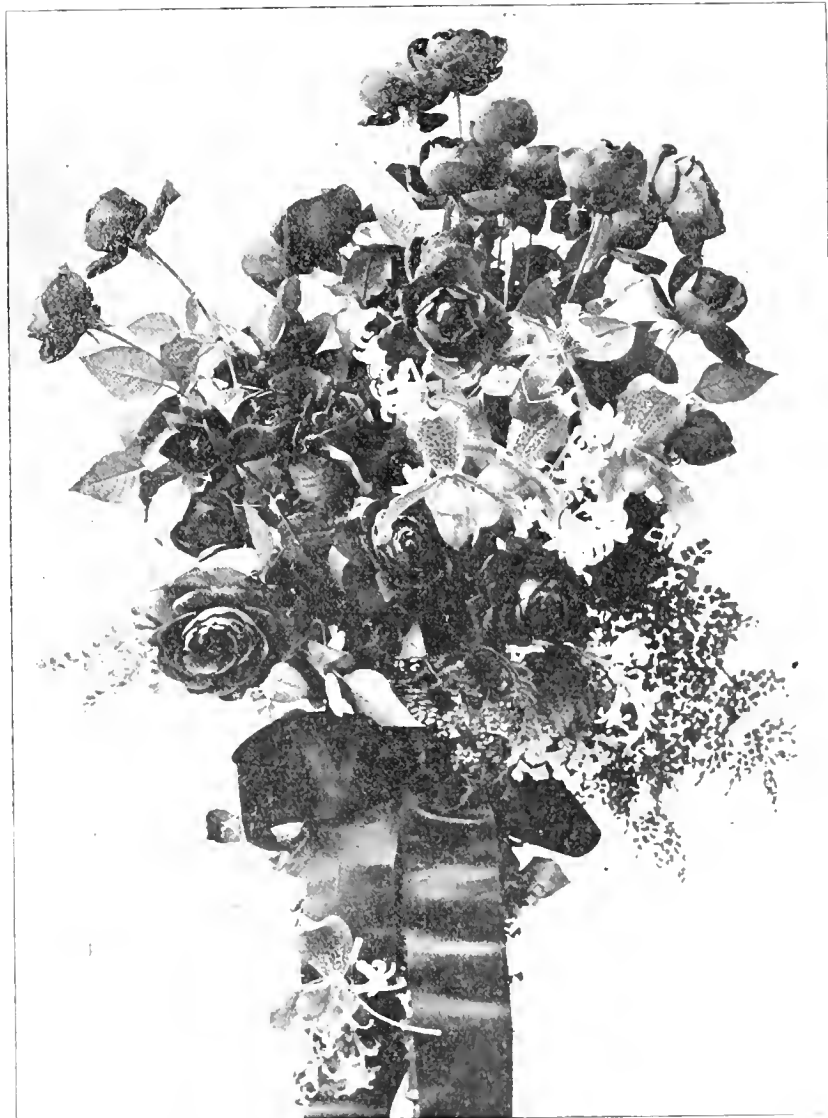
same number of them. In addition to my own evidence I have yet to see the houses of any grower who advocates and practices indoor culture that would not show about the same ratio over field grown plants under good conditions.

With one of these advocates of indoor culture I found about three-fourths of an acre of carnations stuck in one corner of a ten acre field, the balance of the field being a wilderness of weeds. They were planted in beds four feet wide, with about a 10-inch path between the beds, and the carnations planted something like six by

### Boston.

PLANT TRADE BOOMING.—LILIES AND AZALEAS SOLD UP CLOSE.—ALL CUT FLOWERS IN FULL SUPPLY EXCEPTING CARNATIONS.—MEETING OF GARDENERS' AND FLORISTS' CLUB, CO-OPERATIVE FLOWER GROWERS' ASSOCIATION AND MASS. HORTICULTURAL SOCIETY.—VISITORS.

The first five days of April have been record breakers for the season; snow, sleet, darkness and cold, such as are appropriate for February have been the rule so far, and those who feared their lilies would be ahead of time are now putting



METEOR ROSES, CYPRIPEDIUMS AND HYACINTHS.

eight inches in the beds. Such treatment would certainly make any one an advocate of indoor culture, but what a waste of good facilities.

With another grower, who by the way was an advocate of outdoor culture, I found a half acre city lot that had been used for carnations year after year and manured until it was soured and unfit for any but the strongest kind of vegetation. Carnations were simply a complete failure, and this grower would have had—with proper indoor treatment—at least 60% better results from his carnations.

Next week I will give my ideas on outdoor culture.

ALBERT M. HERR.

on all steam in the effort to bring white flowers out of the hard green buds.

Kidder and Pierce and Twombly and Dee, Edgar and Bock and Leuthy and Fee, all big lily growers, are already well sold out and there is certainly no surplus in sight. Most of them are longiflorums, but few Harrisii being seen anywhere in this market, and the prices are below those at which it is understood our Philadelphia contemporaries sold. As a rule the lilies here are good, the plants stocky and flowers of heavy substance. The department stores have laid in big stocks of pot lilies and make a big noise over selling them at a few cents advance beyond cost,

but the rough handling the flowers get in these places quickly removes them from the line of serious competition with the regular florists.

Of other plants there is a good supply visible, but it is understood that azaleas are sold up close and that this market could stand a good many more without hurting it. Rhododendrons are more abundantly displayed than in the past. Some of them are of dull colors and consequently sell with difficulty. In Crimson Ramblers, too, there are many off-color specimens and many that are poorly grown and sparsely flowered. Many of the regular city dealers have taken extra stores for their plant trade and have laid in a heavy stock.

There is more or less cut flower shipping for out of town trade, but the city florists are not inclined to talk cut flowers much until the last moment. There is every indication of a full supply of roses for all needs. Several growers are in with good hybrids. Lawrence Cotter, always on a little quiet hunt by himself, has a grand crop of Kaiserin and Malmaison roses just in the nick of time. Carnations are scarce and when of good quality, bring decidedly fancy figures. In whites Nivea takes the lead in this market now. Several growers are sending this variety in elegant shape. Violets are plentiful, the scare regarding them having departed with the warm spell. The best ones are coming from frames but a good many fair ones are still being picked in the houses. There is plenty of bulbous stock and no advance in prices. Smilax is exceedingly scarce, but the call for "greens" of any kind is decidedly limited and no inconvenience is felt.

Twenty representatives of park departments in several cities of Massachusetts, Rhode Island and Connecticut, met at Hotel Brunswick Wednesday evening, April 6, and after enjoying a dinner completed preliminary organization of a society to be called the New England Park Association. Many hopeful speeches were made on the desirability of such an organization for comparison of experience, discussion of problems of construction and mutual social advantages. Temporary officers were elected as follows: President, J. A. Pettigrew, Boston; secretary, Geo. A. Parker, Hartford, Conn.; committee on organization, John C. Olmstead, Brookline, Mass., J. D. Fitts, Providence, R. I., Jackson Dawson, Jamaica Plain, Mass. The next meeting will be called early in June. On Thursday the visitors were given a drive through the suburbs as guests of the Boston Park Commission.

On Tuesday evening, April 5, Jackson Dawson entertained the Gardeners' and Florists' Club with some reminiscences of his late European trip. The stormy weather added to the demands of Easter business kept many away who would have been glad to listen to Mr. Dawson, who is always entertaining and instructive.

The Boston Co-operative Flower Growers' Association held its semi-annual meeting and dinner at Young's hotel on Saturday evening, April 2.

At the monthly meeting of the Massachusetts Horticultural Society on April 2, an amendment to the by laws constituting a committee on forestry and roadside improvement was passed to its second reading.

Visitors in town: August Haerens, Sarregem, Belgium; Austin Shaw, representing Seabright & Son, New York; L. J. Harmon, Portland, Me.; H. J. Haas, Newport, R. I.



CROTON JOHANNIS.

#### Philadelphia.

THE LILY DISEASE SYMPOSIUM.—PEONY SYMPOSIUM FOR MAY MEETING.—ATROCIOUS WEATHER.—GREAT SHOW OF PLANTS IN TRADE STORES.—LARGE DEMAND FOR LILIES.—VISITORS.

The lily symposium at the April meeting of the club was quite a success although there might have been more members present, growers who are interested and who ought to do what they could to preserve the health of the lily. Quite a number of the bulb merchants were present and showed much interest in the proceedings.

Mr. Harris opened the discussion with a short address he had prepared and John Welsh Young also sent a paper, he not being able to be present; both of these appear elsewhere in this issue.

Mr. G. C. Watson thought that something should be done if possible; probably more careful propagation would do it, also better cultivation, selection of land, changing crops, etc. Mr. G. Anderson thought it was not so much the fault of the bulbs as the methods of forcing; that one might as well blame the buzzards for the carrion as the lilies for the disease; that better results would come with more intelligent cultivation.

Mr. Dillon of Bloomsburg was present and said that he had some planted in the ground under the gutter plates or eaves of the division of his large house; they had been growing there for four years and produced fine flowers each season, not being disturbed. This season they showed signs of disease for the first time.

Mr. Craig thought it impossible to hold seedsmen responsible as some suggested. In Bermuda from reliable reports he had learned that no field of lilies was without it, all were affected more or less. He thought packing the bulbs in tobacco

dust might kill the mite. The symptoms of disease showing in the Japan importations may have come from some bulbs sent over from Bermuda some few years ago, which probably had some mites in them at the time.

Mr. Clark thought a solution of one ounce of carbolic acid in one gallon of water might do to dip the bulbs in, as it had prevented a rot that affected lilies from Japan, when carried over the winter some years ago. Such a treatment might kill the present mite. He also said that his firm, the H. A. Dreer Co., exported large quantities of Harrisii to Europe, mostly in large sizes, and he had yet to hear the first complaint of disease; their treatment was different from that of growers in this country.

Mr. Michell thought a remedy was in order and suggested a thorough fumigation of the bulbs as likely to kill the mites. Tobacco extract or nicotine as strong as possible might be used he thought with good effect. A grower who had pursued this plan had been quite successful.

Mr. Kennedy thought if bulbs were started inside there would not be so much trouble, as those from outside did not seem to force so well when brought inside. A resolution offered by Mr. Young to place the responsibility on the dealers and growers of bulbs, holding them by a guarantee, was tabled.

A peony symposium is scheduled for the May meeting with Mr. Hancock holding the post of honor.

The weather is atrocious at this writing. Yesterday the glass was at freezing point all day, with a snow storm continuing until late in the afternoon. This coming after such fine weather as we have had has put the growers to a great deal of trouble, and interfered largely with the retail business. It is well, however, to have it early in the week rather than later,

it is to be hoped that something better is in store before Easter Sunday.

The stores have all put on their holiday attire, and the great masses of color where plants are packed in as they have to be to utilize every inch of room, make a great show. All hope for a good business, and as for the growers nearly all are sold out, lilies particularly being in great demand.

Visitors in town: James Hartshorne and John D. Thompson of Chicago; J. L. Dillon, of Bloomsburg. K.

#### Chicago.

GOOD PROSPECTS FOR EASTER TRADE.—SCARCITY OF BLOOMING PLANTS.—WHOLESALE TRADE GOOD.—PERSONAL.

Retail trade this week has been very peculiar. Very few orders for Easter were placed early in the week. Monday and Tuesday retail trade was very quiet, the florists' extra large stock and finely decorated show windows seemed to have very little attraction to the average customer; for this reason many in the trade predicted a quiet Easter. This was only the quiet before the storm. Wednesday trade commenced with a rush. The prospect now is that the Easter trade this year will be the largest ever done in Chicago. There will be no very elaborate church decorations this year, such as were made a few years ago. Churches now depend upon the contribution of memorial pieces, with perhaps a few plants for Easter decorations. On the other hand the large retail stores in all lines are using vast numbers of palms and flowering plants. Geo. Wittbold has had nearly every plant he has suitable to decorate with rented out all the week, mostly for store decorations.

Blooming plants, such as lilies, hyacinths, cinerarias and azaleas are sold in large quantities for this purpose, and more could be sold if the plants were to be had. All kinds of good blooming plants are scarce except hyacinths and tulips. With the vast amount of glass and the constant cry of over-production and close competition which we hear on every hand, it is certainly strange that there is no one around Chicago who makes a specialty of growing the better class of pot plants for the wholesale trade. We are shipping cut flowers all over the United States from the Atlantic to the Pacific coast, and from Manitoba to New Orleans, and yet we do not produce pot plants enough to supply our own city. Why can we not supply pot plants to be shipped over as large a territory as we do cut flowers? We are shipping cut flowers this week to New Haven, Conn., and receiving azaleas by express from Philadelphia. Doing business this way is all right for the express companies, but where does the florist's profit come in. A case of azaleas could be sent here by freight in the fall for less than it costs to pack and ship a half dozen azaleas in bloom by express.

The wholesale trade was never better than it has been during the past week. With large orders to fill and a fairly good supply of stock to fill them from the wholesale men are in their glory. There is plenty of everything to fill orders except carnations, which are somewhat short and steep in price, bringing from \$2 to \$5 for common, and from \$5 to \$7 for fancy. Lilies were selling at from \$8 to \$15 on Monday and Tuesday; by Thursday they were held quite firm at the latter price. Roses are selling at from \$6 to \$10. American Beauties at

from \$2 to \$6 per dozen. Smilax is quite scarce, and good strings bring \$2.40 per dozen. Tulips bring from \$3 to \$5.

Walter Heffron, now with E. H. Hunt, will be with E. C. Auling after the first May. Mr. Hunt is still quite sick.

It is reported that T. J. Corbrey is in the city.

A. L. Randall is well pleased with his new quarters; he has the fixtures about completed. The place is thoroughly adapted to his method of doing business.

Visitors: H. Van Zonneveld, of Van Zonneveld Bros. & Co., Sassenheim, Holland; B. K. Bliss, of Boston, the veteran seedsman.

#### Detroit, Mich.

That Mr. Gust Knox never does things by halves goes without saying. One of his recent achievements is a conservatory the like of which one seldom sees on a commercial place. The structure covers 20x60 feet and is built in Gothic style. The high dome, the lofty arches and columns, and the cobble stone walls give it

the appearance of an ancient castle, while the numerous little nooks and corners about the place, the stone elevations, or pyramids, covered with moss and holding palms and ferns of all sorts and sizes—are no less attractive to the casual observer.

A fine aquarium, artistically constructed adds much to the general appearance of the place.

Besides the conservatory, Mr. Knox has also added a house covering 20x90 feet. Taken all in all, Mr. Knox's is one of the finest greenhouse plants in the state of Michigan. Homo.

TOPEKA, KANS.—The meeting of the Shawnee County Horticultural Society will be held in this city on April 7. It will be devoted principally to the interests of fruit growers.

PRINCETON, N. J.—The greenhouse property belonging to the Lanchan estate has been sold to Frank Biallas, who proposes to introduce extensive improvements.



CARNOT ROSES AND CYPRIPEDIUMS.

New York.

PLANT TRADE BOOMING.—CUT FLOWER BUSINESS WAITING FOR ITS TURN.—A NEW GREENHOUSE HEATER.—DEATH OF ROBERT B. YOUNG.

The plant trade is on a boom this week, hampered, however, by the very bad weather experienced during the early part. As has been the rule in recent years the cut flower interests must bide their time until the plant business has had its full innings, which is likely to last until Saturday, and not until then will the cut flower people know what their fate is to be. There is no indication of a special run on any one article and no probability of any disturbing shortage on any line, excepting carnations which continue in light supply with prices beyond the normal. As to lilies the result is not yet in sight but the probabilities are that every good flower and plant will find a customer. The quality of stock, in general, is excellent, averaging better than at any previous Easter season.

Genial Sam Burns, who laid the foundations of his success as a heating engineer under the careful training of the veteran, Thos. W. Weathered, thirty years ago, and who has been a mainstay of the Weathered establishment ever since, has evolved a new sectional boiler for which he makes great claims as an up-to-date greenhouse heater. The writer is not blessed with a great reputation as a judge of the relative merits of direct or indirect surface or other qualifications that these heating experts talk so glibly about, and if he were to say that Mr. Burns had proved his case in a recent convincing presentation of the novel points in his invention it would not strengthen that gentleman's claims a particle, so he discreetly refrains; but the catalogue tells all about it, and is well worthy of perusal. The new boiler is called the "Weathered."

Robert B. Young died on April 2 at his residence in Asbury Park, at the age of 60 years. Death was caused by chronic rheumatism from which he has been a sufferer for four years. Mr. Young was born in Greenwich street, New York City. He started in business as superintendent at the establishment of Young & Elliott. Shortly after the death of his brother, Mr. Isaac Young, of Young & Elliott, in 1891, Robert established himself as a horticultural auctioneer at 205 Greenwich street, where he continued until forced by ill-health to retire. He was a reliable and successful man in his business and was held in high esteem by his business associates, employees and friends, who found him at all times a man of big heart and generous impulses. He was a member of the New York Florists' Club. A widow survives him. The funeral services were held on Tuesday, April 5, and interment was at Greenwood Cemetery on Wednesday.

Visiting New York: Geo. H. Thompson, Lenox, Mass.

Washington.

In the House of Representatives Mr. Cummings introduced the subjoined bill April 4, and it was referred to the committee on agriculture and ordered to be printed.

A BILL TO INCORPORATE THE SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That William L. Gude, C. Leslie Reynolds, Ben-

jamin Durfee and William R. Smith, of Washington, in the District of Columbia; William J. Stewart, M. H. Norton, Lawrence Cotter, E. M. Wood and Patrick Welch, of the State of Massachusetts; E. G. Hill and W. W. Coles, of the State of Indiana; W. N. Rudd, John Thorpe and J. C. Vaughan, of the State of Illinois; Robert Craig, Edwin Lonsdale, John Burton, W. K. Harris, William Falconer and H. B. Beatty, of the State of Pennsylvania; W. A. Manda, John X. May, J. G. Esler and Patrick O'Mara, of the State of New Jersey; John M. Jordan and William Trelease, of the State of Missouri; Charles W. Hoitt, of the State of New Hampshire; Joseph Dirwanger, of the State of Maine; Farquhar Macrae, of the State of Rhode Island; A. Donaghue, of the State of Nebraska; James Dean, John Taylor, William Plumb and William Scott, of the State of New York; Sidney Clack, of the State of California; Henry Holzappel and John Cook, of the State of Maryland; F. A. Whealan, of the State of Virginia; R. Maitre, of the State of Louisiana; J. Spalding, of the State of Connecticut; Elmer D. Smith, of the State of Michigan; their associates and successors, are hereby created a body corporate and politic, by the name of the Society of American Florists and Ornamental Horticulturists, for the elevation and advancement of horticulture in all its branches, to increase and diffuse the knowledge thereof, and for kindred purposes in the interest of horticulture. Said association is authorized to adopt a constitution and to make by-laws not inconsistent with law, to hold real and personal estate in the District of Columbia, so far only as may be necessary to its lawful ends, to an amount not exceeding fifty thousand dollars, by purchase, and such other estate as may be donated or bequeathed to it: *Provided*, That all property so held, and the proceeds thereof, shall be held and used solely for the purpose set forth in this act. The principal office of the association shall be at Washington, in the District of Columbia, but annual meetings may be held in such places as the incorporators or their successors shall determine. Said association shall from time to time report its proceedings to the Secretary of Agriculture, at least once in each year, and said secretary may communicate such reports in whole or in part to Congress.

The bill will be pushed with all possible speed. It will probably be introduced in the senate April 6. This will be for the purpose of gaining time, and the committee on agriculture will consider it at its next meeting. No hitch is expected in the committee or on the floor.

REYNOLDS.

ORANGE, N. J.—The monthly meeting of the New Jersey Horticultural Society was held in Decker's Hall on Tuesday evening, April 5. Prof. N. L. Britton, director of the New York Botanical Garden, illustrated by stereopticon views, which was greatly enjoyed by a large audience. Robert McArthur exhibited some excellent carnations, Mrs. Geo. M. Bradt being particularly fine. David Tate showed *Lapageria rosea* and Peter Duff a large vase of *Phaius grandifolius*. Certificates were awarded to all. Prof. Britton was elected an honorary member. There will be a spring exhibition on April 21 in Berkeley Hall, near Brick Church in which the Oranges will cooperate. Much interest is manifested and a fine display is promised. PETER DUFF, Sec'y.

Ornamental Bedding.

PART IV.

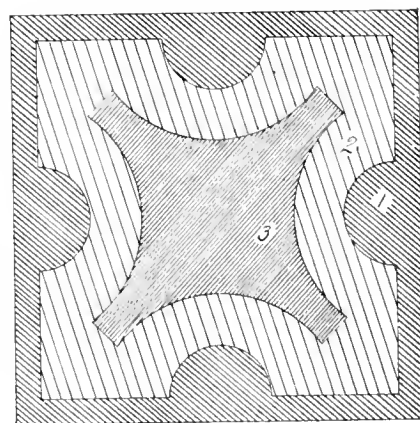


Fig. 13.

Here is an easy design to fill the above square.

1, *Alternanthera amœna spectabilis*; 2, *Coleus Golden Bedder*; 3, *C. Verschaffeltii*.

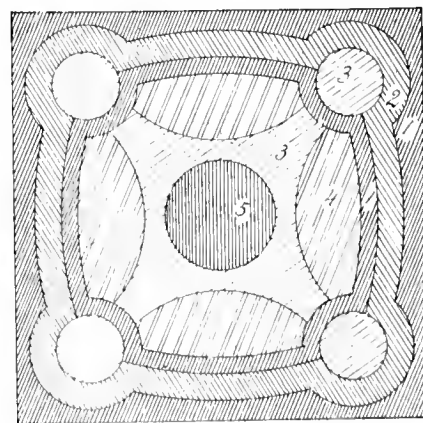


Fig. 14.—An eleven foot square.

1, *Alternanthera Reevesii*; 2, *Mesembryanthemum cordifolium variegatum*; 3, *Santolina incana*; 4, *Alternanthera aurea nana*; 5, *Achyranthes Lindenii*.

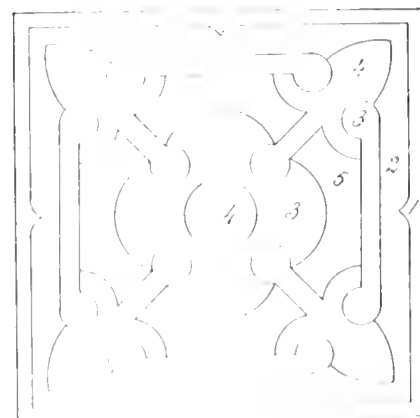


Fig. 15.—A twelve foot square.

1, *Alternanthera paronychioides major*; 2, *Mentha Gibraltarica*; 3, *Alternanthera amœna spectabilis*; 4, *Santolina incana*; 5, *Alternanthera aurea nana*.

### A Palm Disease.

Specimens of a diseased palm, *Phoenix reclinata*, have been sent to me recently for consideration from a large palm grower. The affected leaves have lost much of their original beautiful green color, and along with the yellowing of the foliage there has come a large number of nearly circular pimples that rise for some distance above the surface of the leaf.

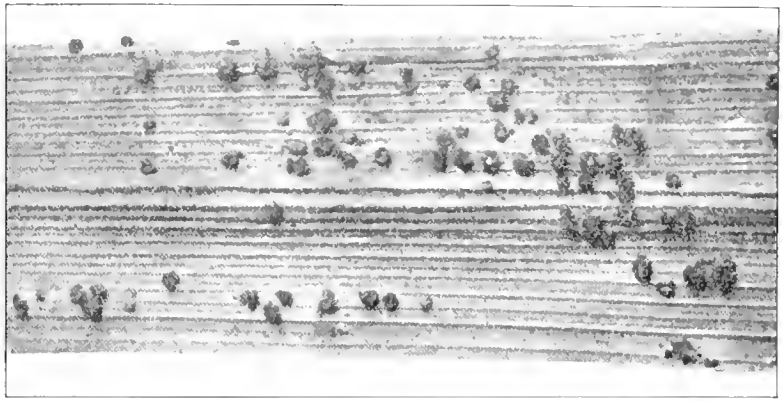
The trouble is of fungus origin and the dark spots are due to cup-shaped protuberances in which the spores are developed. This fungus bears the name of *Graphiola Phœnicis* Poit., and is one of the members of the group of smuts. It is met with upon members of several genera of palms, as *chamærops* and *phœnix*; but so far as the writer knows it is not found upon other than the palms. It belongs to a group of fungi that contains some of the worst of parasites, among which are the various smuts of corn, wheat, oats and the grasses generally. Another smut makes sad havoc with the onion industry in some localities.

Those who grow greenhouse plants may not fear the spread of this disease to the ordinary commercial sorts such as roses, violets, carnations or chrysanthemums, but may expect it to attack many species of palms.

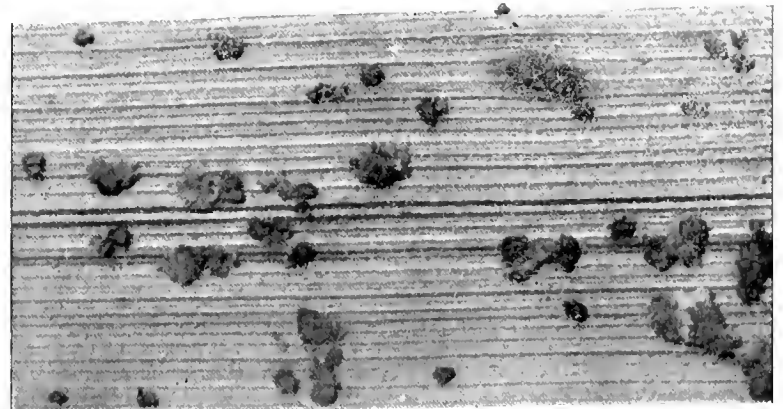
The smuts are deeply seated fungi and by the time the spore spots are produced the affected leaves are beyond recovery, and the best way is to cut all such away and burn them. The removed parts should not be left to rot in a waste heap. It is possible to keep healthy plants from taking the disease by spraying the foliage, thereby destroying any spores that may have fallen upon them. The removal of the young spore masses as they appear may be of some value.

Figure 1 shows a portion of palm leaf magnified three times and the spore spots are overrunning with the spores. In figure 2 a later appearance is shown where the wall of the cup is thick and quite dark. This leaf is likewise increased to three times its natural size.

BYRON D. HALSTED.



A PALM DISEASE, FIG. 1.



A PALM DISEASE, FIG. 2.

### Mr. W. H. Taplin's Experiences with Jadoo.

My first experiment was made with a small quantity of the jadoo fibre during the summer of 1896, and the material being received at about the same time as a lot of seeds of *Latania Borbonica*, I planted a number of pans of these seeds in the new substance, and carefully noted the results.

In addition to the pans referred to, in which no other compost but jadoo was used, I partially filled several others with our ordinary compost on which the seeds were sown, then used jadoo as a covering for the seeds. The entire lot of seeds, including those planted in pure jadoo, those in part jadoo, and also those in the ordinary compost, were then placed in one house and submitted to the same treatment.

The seeds sown in jadoo seemed to germinate slightly quicker than the others, showing above the surface about one week sooner than the main lot, but this apparent improvement was only temporary, and when the seedlings were about three inches high they stopped growing, the jadoo evidently failing to provide the necessary nourishment. From this time forward the jadoo seedlings did not improve, and for some months after the entire lot was potted off in ordinary

soil the batch of jadoo seedlings could readily be picked out, owing to their starved appearance. The seeds that were merely covered with the jadoo, while not equal to those on which no jadoo was used, were better in results than the first lot.

The lesson from this experiment was obvious, and I at once decided that I had no use for jadoo for this particular purpose. On September 15, 1897, I began a few more experiments which have extended over a period of six months, and were as follows: Three sets of plants were selected, each set containing a given number of *Pandanus Veitchii*, *P. utilis*, *Latania Borbonica*, *Areca lutescens*, *Kentia Belmoreana*, *Cocos Weddelliana*, and *Ficus elastica*, the plants in the three lots being selected to correspond with each other as nearly as possible. The first lot was potted in jadoo and watered with jadoo liquid in accordance with directions, the second lot was potted in jadoo and watered with pure water, and the third set of plants was potted in ordinary compost and also watered with pure water only.

At the end of the six months' trial the only species grown in jadoo that are equal to those grown in ordinary soil are *Pandanus Veitchii* and *Kentia Belmoreana*, while all the other species tested have been steadily depreciating for the past two months, there being apparently little or no difference between the plants watered with jadoo liquid and those which only received pure water.

The jadoo liquid was also tested on some pot-bound specimens of *Kentia Fors-*

*teriana*, being applied twice a week for seven (7) weeks, and at the end of this period no improvement whatever could be seen in the plants.

As a rooting medium for cuttings, I have only used jadoo for a few *araucaria* cuttings, and in that instance it was not satisfactory, while similar cuttings planted in the mixture of sand and cocoa fibre that I have used for many years for propagating purposes rooted readily. The only conclusion arrived at after these brief experiments is, that we have much more confidence in our regular compost which costs possibly \$2.25 per ton than in jadoo at \$27.50 for the same weight.

W. H. TAPLIN.

### Grand Rapids, Mich.

Trade has been very good here this week, mostly funeral work. Flowers plentiful, excepting carnations which have been rather scarce.

Easter lilies, callas, roses, violets and bulb stock will about equal the demand, but carnations will be rather scarce for Easter.

Crabb & Hunter are preparing to build a new carnation house and several violet houses. Wealthy Avenue Floral Co. expect to rebuild some of their houses. Grand Rapids Floral Co. and James Schols both expect to add to their glass. Henry Smith is building a carnation house and more violet houses.

The next club meeting will be held at the Eagle hotel, Tuesday evening, April 5.  
H. S.

## Sketches From My Trip East.

I am sure I voice the sentiments of every member of the executive committee of the Society of American Florists and Ornamental Horticulturists when I state we shall carry with us for a long time many pleasant recollections of Washington, and our florist friends who so royally entertained us.

That banquet! Well we will never forget it. The Washington boys have proven beyond question that they know how to get up a banquet in a most artistic style. Tables, walls, in fact the whole banquet hall was profusely and artistically decorated; nothing was lacking to make everything most pleasing and enjoyable. The speeches from the Hon. James Wilson and other distinguished guests were very instructive and entertaining. President Gude and our old friend W. R. Smith proved to be good after dinner talkers.

Your Philadelphia correspondent has given you a full account of what took place while we were in Washington, therefore I will only briefly mention a few things which may interest your readers.

I was much impressed with a red seedling carnation at the American Rose Co.'s establishment. As seen there it seems to be a good healthy grower, free bloomer, good size, flower on long stiff stems. A house of Victor carnations was a sight long to be remembered. Mr. Victor has no doubt come to stay. Roses in general were also in fine condition at this immense establishment. I like the way Golden Gate is done there; it seems very prolific and many fine flowers on long stiff stems were seen; the name, however, is very misleading, as the color is a light delicate shade of pink, somewhat in the way of President Carnot; Mme. Chatenay is a very pleasing shade of pink, quite free, but flowers a little under size; one house 50x145 filled with this variety was a grand sight. American Beauty, Brides and Bridesmaids were conspicuous by their absence in this establishment, not a plant of these standard varieties was seen.

Mr. Durfee has great faith in Kaiserin; it is the only variety he grows for a white; his stock looked in the pink of condition. I was much disappointed in Mrs. Robert Garrett; not more than 10% of the flowers seem to come perfect, and mostly on short stems. I sincerely hope this variety will prove better in other sections of the country.

At Gude Bros.' everything was in first-class order. Meteors, La France, Golden Gate, Maids and Bride roses were particularly fine.

After leaving Washington my next visit was with the "Grand old duke" (Lonsdale) at Chestnut Hill. There American Beauties in solid beds were seen, perhaps as fine as any in the country. His collection of orchids (which is said to be the finest in Philadelphia) were the picture of health. Farleyense fern and palms were also grown here to some extent.

In close proximity to Mr. Lonsdale is Mr. John Burton, whose reputation for growing A No. 1 roses is world wide; about half of Mr. Burton's establishment (which is over 10,000 square feet of glass) is devoted to American Beauties, and a magnificent plants. Our scribe has never seen a better everything on the place, as being good interest on the investment. A lot of Mrs. Metcals and Carnot were the picture of health, not one poor house could be seen on this model place, two lines of Albas petals were in sight.

this variety should prove a good commercial sort.

I also visited Myer and Samtman, which is within a few blocks of the last mentioned place. Beauties were also the leading variety here and done in grand shape; their whole establishment, which is quite large, is devoted exclusively to roses for cut flowers. It will be remembered Della Fox carnation originated here, but not a carnation of any description is seen on the place to-day.

I was sorry to leave Philadelphia, as the oysters served there seem to have a better flavor than in most other cities, but my time was limited and next day I made a flying trip to New York, in company with Mr. Elmer D. Smith of Michigan. Having only one day in this city it was spent at Queens and Floral Park.

Mr. Ward was first visited. Carnations, geraniums and chrysanthemums are here grown in large numbers. White Cloud and John Young impressed me as being two good white carnations worthy of trial; New York was also in fine shape. Bon Ton is a very pleasing warm scarlet, good free bloomer and very stiff stem; not quite up to Jubilee and Flora Hill in size, but has enough other good qualities to make it a good commercial sort. Mr. Ward has had enough of short span to the south greenhouses, and hereafter will build nothing but equal span with a space between each house. His last house is certainly a model for the growing of any plants for cut flowers in winter.

After spending about an hour and a half with Mr. Ward he kindly gave us a carriage ride to Floral Park to visit Mr. C. H. Allen. Gladiolus is one of Mr. Allen's specialties, of which many thousands were seen in storage. In the greenhouses Scott carnations were a sight not soon to be forgotten—large heavy plants, long stiff stems and blooms, extra large for this variety. It had never before been our pleasure to see any house of carnations so thickly set with buds and flowers. McGowan was also in fine condition.

Next day found me at Binghamton, N. Y. A call was made on Mr. W. H. Graham, who has worked up a nice local trade since locating there some four years ago. Roses, carnations, bulb stock, etc., are well grown for a general retail trade, mostly sold through his store, which is located in the heart of the city.

W. W. COLES.

## Baltimore.

EASTER OBSERVATIONS.—LILIES SHORT.—CURBSTONE DEALERS.—JONQUILS AND DAFFODILS PLENTIFUL.—ROSES AND VIOLETS CHEAP.

Well, here we are again on the eve of our spring harvest, known to church goers as Easter, and let every man who has just the stock he intended to have, in just the condition he wants it, hold up his hand, or make some sign, audible or visible. Every man in the crowd said to himself last spring, "I have found out what to grow, and the experience I have picked up will set me just right for next Easter." But, alas! observation doesn't seem to prove that all came out, or will come out, where they expected to. In fact, considering the number of conditions necessary to be weighed and provided against, it is a sort of workday miracle of skill and presence that enables the florist to have the bulk of his Easter plants and flowers at Easter instead of some weeks before or after. The seeds,

bulbs or plants; the heating, the ventilating; the clouds, rain, sunshine, frost, all are to be considered; besides the responsibility of employes, one of whom by one bit of carelessness may spoil a houseful almost ready for market.

It is something of a wonder that flower growers are as contented and cheerful a lot as they generally are, in spite of the strain of uncertainty and unceasing watchfulness in which they live. They must catch some reflection of trust in Providence in their toiling existence, from the lilies "that toil not" and the bright works of nature by which they are surrounded. What else could keep a man in a business where the brain of a scientist, the taste of an artist, the skill of a mechanic, must be combined with the cunning of the merchant and the physical vigor of a day laborer to insure success in a moderate degree? And where the hours of labor are not from 9 a. m. to 3 p. m., nor from 8 a. m. to 5 p. m., nor even from 7 a. m. to 6 p. m., but all day, yes and frequently all night too, with enough cares for the seventh day, which almost every other trade has for rest, to keep a pretty continuous wear.

A flying trip around among the growers shows a very moderate amount of distinctively Easter material on hand. Lilies will almost certainly be a short crop, several whose plants seem healthy will be too late; only two have been seen whose flowers are too forward, and they are practically in full bloom three weeks too soon.

Though a good many tulips and hyacinths are coming on there seems not to be enough, even of these, to supply a full fledged demand. It is hard to estimate these this far ahead, as many are no doubt in out-of-the-way corners and will turn up all right when needed.

Messrs. Fischer & Ekas have one of the most interesting places to visit about town. It is a sight to see when Mr. Fischer goes over his seedling carnations, showing off the strong points of pets and disdainfully passing by plants with monster blooms that have a split calyx or weak stem or bad color, or some other unpardonable defect. Several now on probation seem perfection to anyone but a carnation specialist, notably one about the color of Philadelphia chrysanthemum, and another white with delicate fringe of scarlet around the edge of each petal. The place is not confined to seedlings by any means, as the thrifty looking plants in the other houses testify.

J. G. Erdman is not only ahead with Harrisii lilies, but has planted a lot of chrysanthemums outside, and has a nice lot of smilax and miscellaneous plants inside.

Montgomery Bros., Jas. Simpson and M. Richmond all seem to be growing seedling ferns enough to supply the city. The geraniums, and pot plants generally, on all these places are looking first-class. Curbstone dealers are having things all their own way in the city. Violets seem their chief stock, but now and then one sees really good roses in a dilapidated basket or tin bucket with a voluble salesman behind them. The worst form of this business is when it is combined with some malformation or pity-exciting deformity, as was shown by the steady sales of a little hunchback girl.

MACK.

FRESHFIELD, MASS.—Frank McCarry, employed by John White, the florist, recently received a severe scalp wound by being thrown from his wagon.



THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted. Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

We desire to call the attention of our advertisers to the annexed statements of the Chicago postmaster and our printers in connection with the last issue of the AMERICAN FLORIST.

SPRINGFIELD, O.—John M. Good of Good & Reese, who was deposed as mayor last February was re-elected April 4 by a majority of about 900. Many leading republicans supported him on the ground that the ouster was clear persecution.

THE WESTERN NEW YORK HORTICULTURAL SOCIETY.—We are in receipt of the report of the proceedings of this society at its forty-ninth annual meeting, held at Rochester, January 26 and 27. The volume contains numerous valuable essays and reports from prominent authorities.

Professor Cowell's Experiences with Jadoo.

We have been experimenting with jadoo for over a year and have as yet been unable to obtain any results that convince us of its superiority to other materials which we use, or to lead us to think that we can use it for the few things that do well in it with any profit. There are a few plants that for a time do remarkably well in jadoo, but the stuff is too expensive for us because we have other materials which answer just as well at one-third the cost.

The mechanical condition of soil or compost is a most important item, and one that though generally recognized in a way, receives from comparatively few gardeners the consideration which it deserves. We have all of us perhaps been too prone to pot everything from the same pile, because we felt sure that it was rich in food supply and offered all the usual elements in abundance. It is well known that certain plants can not be grown in what we call our ordinary potting soil. Who can tell just how many of our everyday plants would do better under different physical conditions of soil? It is to the physical condition of jadoo that I attribute the success that seems to have attended its use by some growers.

There are certain plants, more particularly some of the very coarse rooted ones, like dracaenas of the terminalis style and some young palms, that start off very well in jadoo, but they very soon exhaust the food supply and require repotting; and we find that if we keep the plant moving we soon have it in a pot that is out of all proportion to the size of the plant. To those who have been using peat moss and cocoanut fibre for years, I think jadoo will not bring any help, for they will, with the proper fertilizers added, produce as good or better results at a very much lower cost.

We have tried during the year a great many kinds of plants in this much advertised material, and are still trying it.

Post Office at Chicago, Ills. No. 58 Date, April 5th 1898. Publication or News Agent American Florist. Received the above amount in full payment of postage. Charles H. Gordon Postmaster.

RECEIPT OF CHICAGO POST OFFICE.

REGAN PRINTING HOUSE. PRINTERS, PUBLISHERS & BINDERS. NIGHT AND DAY PRESS ROOM. 87-91 PLYMOUTH PLACE. Chicago, April 5th, 1898.

American Florist Co., 324 Dearborn St., City.

Gentlemen: This is to certify that we printed Sixteen Thousand Four Hundred, (16,400) copies of the American Florist, Easter Edition and mailed Fifteen Thousand Six Hundred and Thirty, (15,630).

Respectfully, Regan Printing House. J. H. Regan Pres. did and made affidavit above, this Fifth day of April, 1898. Lillian M. Jewett.



PRINTERS' CERTIFICATE AND AFFIDAVIT.

Undoubtedly many plants can be grown in it. A chrysanthemum can be grown in it and even flowered but we have not been able to grow one which was at all satisfactory, and we have tried many.

The foliage has always been poor and the plants have presented invariably the appearance of starvation notwithstanding frequent applications of the "liquid." Dracaenas like fragrans and its variety Lindenii after a short time take on this starved look. We have grown several species of asparagus (Sprengerii among the number), some ferns and many other plants selected from a general collection

in jadoo alongside the same species planted in other material, and the latter were with only one or two exceptions by far the best.

With orchids we have not tried it very extensively, some half dozen species being the extent to which we cared to go. Of these one species has done very well, in fact I think better than the check plants which were beside it—this species was Calanthe Veitchii.

For seedlings and cuttings it does not seem to me as good as several other substances which have been in use for years. JOHN F. COWELL.

## A Drummer's Taddle.

Not in the history of the florists' trade has there been earlier or more extensive transactions in the east than during the past week. Most of the plant trade usually reserved until Easter week is now well on and business promises to be heavier than at any preceding holiday, and incidentally we have had the chance to note what an orthodox class the eastern florists are, when witnessing at several large places the industrious preparations and packing on Sunday to meet the exigencies of this unusual and early demand.

Prices, too, are firm and stock will clearly sell out at a shade or more above usual Easter prices. Azaleas, hydrangeas, genistas, spiraeas, etc., are generally in excellent shape. Hyacinths, tulips and narcissi, most of them in without heat, are especially well-grown and lasting. The Crimson Rambler rose has increased its reputation for value as an Easter plant, several of the large florists having grown quantities of large plants in profuse bloom bright-flowered and free of mildew.

It has taken a season or two to learn how to handle this, but from the appearance of stock we have seen, the lessons have been well learned and this rose now is added to the list of showy and salable Easter plants.

Lilies are scarce on account of diseased bulbs, a portion of the crop having gone to waste during the mild weather.

This is the time when the grower anathematizes the bulb dealer as a venial wretch, and the drummer as his arch conspirator, and wonder is expressed why he still walks the earth and "rears his head in unblushing effrontery;" it is just the season when this industrious pilgrim should lie low and await the passing of the harvest trade of this profitable season to bring about that pleasanter mood among the florists which we all enjoy when the hard earned shekels jingle their sweet music. The planting mania will again return and the growers again "burn their fingers" as surely as the water ran on in Tennyson's "Brook"—and this is no babbling either—and so the villified drummer sees the light ahead, trudges his weary round, weaves his blandishing smile; extends his jolly greeting, talks, it may be flippantly, on the fresh topics of the day—your drummer is always fresh—about Cuba Libre, to illustrate the American dejected feeling against Spain he tells of that last hotel where he stopped which nearly had to close its doors because it had Spanish mackerel and Spanish onions on its menu, and thus ever beginning with his far-fetched and global sermons on current questions of the hour, customers in self-defence and for riddance, forgetting the past, secretly admitting that after all he did as well last year as anyone, in this imperfect world, give him the corrected order, serenity and satisfaction again spread over the scene, both florist and salesman begin anew the round of another year in their work among the flowers, jointly exclaiming: "The sun has come."

Philadelphia, Pa. BURT LINDY

## Cut Flower Price Lists Received.

H. L. Sunderbruch Co., Cincinnati; H. C. & H. Hunk Co., Milwaukee, W. A. A. L. L. Co., Cincinnati; Lillis & Pollworth, Milwaukee; A. G. Frisco & Co., Chicago; Welch Bros., Boston; W. T. Kasting, Buffalo; St. Louis Cut Flower Co., St. Louis.

## Rochester, N. Y.

GORGEOUS WINDOWS.—PLANTS IN GOOD DEMAND.—CUT FLOWER MARKET STEADY.—COLD SNAP.

The store windows of our florists present a most gorgeous appearance this week. Most conspicuous among the plants are of course the lilies and the azaleas in variety. Another prominent feature in the display is the increased number in rhododendrons and in well shaped lilacs, also some profusely flowered metrosideras in compact bushy plants. Kalmas are seen in several places, some of these are a little lanky but thickly set with flowers; ceras of medium sizes seem to sell rapidly and it is not very likely that any of them will be left over; hydrangeas had time this year to get hardened off, and are in better condition to withstand the dry atmosphere in a dwelling house than they usually are when forced for Easter. The grand large specimen of Paris daisies, offered in various places are sure to find purchasers. Genistas are in evidence everywhere in all sizes. Spiraea astilboides and the Japan varieties are represented in profusion; cinerarias are not at all scarce and H. P. roses are quite plentiful. Crimson Rambler has also been bloomed by several growers, but here I have to state that budded stock has invariably given better satisfaction than those on own roots, the clusters or panicles being not only much larger and far more robust but are produced on every growth, while the plants raised from cuttings have a tendency to run up blind shoots from the base.

The flat pans filled with bulbous stock of all description have sold remarkably well all winter and the demand is not diminishing. Valley pans are decidedly in fashion here at present and in addition thereto we may mention the dwarf English primrose and its hybrids, and the low compact growing forget-me-not, which when fully out in bloom are so inviting, and not being very high priced are readily sold. Violets and pansies grown in the same manner are equally acceptable and several of our storemen have them in their windows.

The cyclamen at Geo. Keller's, which were so successfully kept back for Easter are nearly all disposed of and have proved quite profitable, as also have his blue daisies, which he had in cold frames until seven or eight weeks ago; undoubtedly we shall see more of these neat and free-blooming plants another season.

As to the state of the cut flower market during the week past, we can not say that the demand was very brisk, though but very little stock went to waste. The supply was not excessive, and what came in could be used up every day. The prospects for an abundant Easter supply are favorable, but cut lilies will be rather scarce and command a good price.

All our florists are quite confident that Easter trade will be ahead of last year's, especially in the plant line, and they are well prepared to meet a large increase in the demand for the latter.

Four or five successive real cold days have done a lot of damage among bulbous stock outdoors, especially is this noticeable with hyacinth beds which were nearly fully out in bloom at the time, they are lying flat on the ground now and early tulips have suffered in many localities in the same way, the mild March days had favored a rapid growth which proved too soft for severe frosts.

I. B. K.

See "saw your ad. in the Florist" when you write advertisers.

DAYTON, O.—Warren Matthews' greenhouses were in the flooded district. He lost the entire contents of the houses.

DAVENPORT, IA.—Mrs. F. L. Bills has opened a new place at 104 West Second street. For the present she will continue the business at her former location, also.

## SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1888 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By No. 1 grower of roses, carnations, violets and general run of cut flowers; married, 27 years' experience. References.

P. R. care American Florist.

**SITUATION WANTED**—By competent gardener and florist on private or public place, where intelligent service and good results are wanted. Best of wages expected.

A. P. A. care Am. Florist.

**SITUATION WANTED**—Single age 30; grower of roses, carnations, mums, v. l. ferns, palms ferns, etc.; qualified to take responsible position commercial or private.

F. A. H. care American Florist.

**SITUATION WANTED**—By good, all-round green-house man, age 27; 10 years' experience (Holland). Best of references. Can come at once.

H. KLEINSTARINK.

Station A. Louisville, Ky.

**SITUATION WANTED**—A man 30 years of age, single, wants position in commercial place; good grower of roses, carnations, mums, palms and general stock. Best of references. At Liberty April 11.

F. H. B. care American Florist.

**SITUATION WANTED**—Married man, age 28, no family; private or commercial; 12 years with leading firms; capable in all branches; willing to run commercial place on commission plan. References.

GARDENER, Floral Park, L. I., N. Y.

**SITUATION WANTED**—As foreman or manager in large cut flower establishment by a first-class grower of roses, carnations, mums and general stock; has been foreman in large places for the past 10 years; 24 years' experience. Best references. Address

F. B. care American Florist.

**WANTED**—An all-round good man for greenhouse work; married man, steady work. Address

JACOB MEYER, Morton Grove, Ill.

**WANTED TO RENT**—Established florist business; houses must be in good condition. Or would buy interest in business. In writing give full particulars. Address

G. J. G. care American Florist.

**WANTED AT ONCE**—A florist, German and single; wages for the first two months \$20, and after that \$25, board and washing included. Steady work the year round.

A. SEXTON, Menominee, Mich.

**WANTED**—In a Wisconsin city, an all-round florist, a capable man to take entire charge, grow good roses, carnations and general greenhouse stock. Must be sober, honest, industrious. Good wages to the right man. References required. Address

M. G. care American Florist.

**FOR SALE**—Greenhouses on principal street in the city. For particulars apply to

J. H. REBROCK, 84 Main St., Buffalo, N. Y.

**FOR SALE OR RENT CHEAP**—Six well-stocked greenhouses, dwelling, etc. Best R. R. facilities, no competition. Reason, poor health.

W. L. WISS, White Hall, Ill.

**FOR RENT**—Two acres of rich land suitable for florists' purposes; conveniently located within nine miles of Boston. Will give ten or lease on very favorable terms. Lately occupied by a florist. Address

JAMES BARNES,

Box 56, East Lexington, Mass.

## FOR SALE.

Two Greenhouses, well stocked, no competition. House attached.

E. GRAVES, Pittsfield, Ill.

## FOR SALE AT A BARGAIN.

A newly built but well established florist business of 10,000 feet of glass. Centrally located and well stocked. Sickness cause of wanting to sell. Address

BUSINESS, care American Florist.

## FOR SALE

Six Greenhouses; about 11,000 feet of glass, well stocked; wholesale and retail; town of 1,000; no competition; less than one hundred miles of Chicago; two railroads. For particulars address

"A," care American Florist.

**Grafted Roses for Forcing.**

ED. AM. FLORIST:—In reply to your inquiry for my conclusions as to the value of grafted roses for forcing, as compared with those on their own roots, I would say that after reading Mr. Simpson's article about grafted roses a year ago I procured 1000 of the Manetti stock and grafted them with Beauties, Brides and Bridesmaids. The Beauties have not done as well as those on their own roots. The Brides and Bridesmaids planted on the same bench with those on their own roots have grown much stronger. The proportion of buds with stiff strong stems has been greater, but those on their own roots have given a greater number of buds.

I do not see that the grafted ones have any great advantage over the others, and do not think that grafting will ever take the place of growing them on their own roots.

I did not keep any account of the number of buds cut from the same number of plants grown in each way, and cannot speak as positively as I would like to be able to do.

I am making a trial of another 1000 and hope to be able to give you a fuller report next year. JOSEPH HEACOCK.

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long.

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

**ASHES CHEAP.**

ALSO PURE GROUND BONE.

Write for prices.

GEORGE STEVENS, Peterborough, Ont.

COMPLETE LINE OF SUPPLIES  
WIRE WORK  
WE MAKE IT  
IMPORTERS OF BULBS  
PHONE 1273 BOX 75  
ALWAYS ON HAND FINE STOCK OF CUT FLOWERS  
ELLIS & POLLWORTH MILWAUKEE WIS.

**Wholesale Flower Markets**

CINCINNATI, April 7.	
Roses, Beantles select	15.00@35.00
" Brides	6.00@10.00
" Bridesmaids	6.00@10.00
" Meteor.	8.00@10.00
" Perles	4.00@6.00
Carnations	3.00
" fancy	4.00@6.00
Lily of the valley	3.00
Romans	3.00@4.00
Narcissus	3.00
Dafoia	4.00
Violets	.50@1.75
Harriell	12.50
Callas	10.00
Tulips	3.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00

ST. LOUIS, April 7.	
Roses, Beauties	3.00@35.00
" Meteors	3.00@10.00
" Brides, Bridesmaids	4.00@10.00
" Perles	3.00@6.00
" Kaiserin	4.00@10.00
Carnations	3.00@6.00
Violets, California	1.00
Lily of the valley	2.00
Harriell	15.00
Callas	10.00
Tulips	3.00@5.00
Narcissus, Romans	1.00@2.00
Smilax	15.00@20.00
Freesia	2.00@2.50

MILWAUKEE, April 8.	
Roses, Beauties	15.00@35.00
" Brides, Bridesmaids	6.00@10.00
" Meteor	6.00@10.00
Carnations	4.00@5.00
Violets	.75@1.00
Romans	3.00@4.00
Lily of the valley	3.00@4.00
Freelias	3.00@4.00
Tulips, Hyacinths	3.00@4.00
Von Sions Jonquils	3.00@4.00
Callas, Harriell	12.50
Smilax	15.00@20.00

BUFFALO, April 7.	
Roses, Beauties	15.00@75.00
" Brides, Bridesmaids, Meteors	8.00@12.00
" Perle, Belle	4.00@6.00
" Niphetos	5.00@6.00
" Kaiserin, Mermets	8.00@12.00
Carnations extra	3.00@4.00
" ordinary	1.50@2.00
Lily of the valley	3.00@4.00
Violets	.75@1.25
Romans	3.00@6.00
Harriell	10.00@15.00
Smilax	15.00@20.00
Adiantum	1.25@1.50
Asparagus	50.00@75.00

**BASSETT & WASHBURN**

88 WABASH AVENUE,  
CHICAGO

WHOLESALE DEALERS AND GROWERS OF

**CUT FLOWERS**

GREENHOUSES: HINSDALE, ILL.

Always mention the.....  
**American Florist**  
when writing advertisers.

**C. A. KUEHN, Wholesale Florist,**

1122 PINE STREET,  
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A complete line of Wire Designs.

**MOUND CITY CUT FLOWER CO.**

Wholesale Florists.

CONSIGNMENTS SOLICITED  
Special attention given to shipping orders  
1322 Pine St., ST. LOUIS, MO.

**C. W. WORS**

2740 Olive Street,  
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**FLOWERS** .....WHOLESALE.....

.....ROSES, and a full line  
Headquarters for the South West.....  
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**E. H. MICHEL**

1620 Olive St.  
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GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST....  
495 Washington St., Buffalo, N. Y.  
Also Dealer in Florists' Supplies and Wire Designs

W. A. MCFADDEN,

**"Rosebank"**

NEAVE BUILDING,  
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Producers and Shippers of every description of High Class Floral Supplies.

**CATTLEYAS and DENDROBIUM NOBILE.**

Quotations issued weekly, forwarded on request.

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WHOLESALE COMMISSION FLORISTS  
4th and WALNUT STS.  
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CONSIGNMENTS SOLICITED  
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8,000 CUT

**Harrisii Lilies for the Easter Trade**

ALSO ALL OTHER SEASONABLE FLOWERS  
PROMPT SERVICE. At the Right Prices. GOOD PACKING.

Place your order now for Easter delivery.

**HOLTON & HUNKEL CO.**

Wholesale Florists and Florists' Supplies. 457 MILWAUKEE STREET, MILWAUKEE, WIS.  
Wire Work. Phone Main 874. P. O. Box 103.

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THE "OLD RELIABLE" FOR  
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**CUT FLOWERS**

Hunt's Flowers  
Go Everywhere

76 Wabash Ave., CHICAGO.

**KENNICOTT BROS. CO.**  
WHOLESALE CUT FLOWERS  
AND FLORISTS SUPPLIES.  
WIRE WORK  
A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING,**  
WHOLESALE  
COMMISSION FLORIST,

51 WABASH AVENUE,  
Consignments Solicited. CHICAGO.  
Prompt attention to shipping orders.

**A. G. PRINCE & CO.**  
Wholesale Cut Flowers  
AND FLORISTS' SUPPLIES.  
ROOTED GARNATION CUTTINGS

Albertini and Bridesmaid, \$2.00 per 100;  
Daybreak, \$1.50 per 100; Lizzie McGowan,  
Ivory, Lizzie Gilbert, Fred Dorner and  
Rose Queen, \$8.00 per 1000.

88 & 90 Wabash Avenue,  
Telephone Main 3208. CHICAGO.

**S. B. WINTER,**  
(Successor to WINTER & GLOVER.)

21 Randolph St., Chicago.

**HIGH GRADE CUT FLOWERS,**  
PACKED RIGHT,

so they will reach you in just as good condition  
as they reach us.

WIRE DESIGNS: A Full Line. Write us for  
our illustrated Catalogue.

# Vaughan, McKellar & Winterson

WHOLESALE

FLORISTS SUPPLIES  
FLORISTS SEEDS  
SPRING BULBS

All the leading varieties in Carna-  
tion Rooted Cuttings

Best varieties of Young Roses in 2 1/2-in. Pots.  
Fine well cured Pearl Tuberosc Bulbs, per 1000..... \$ 7.50  
Extra fine mixed Gladioli Bulbs, per 1000..... 12.50  
Fine mixed Gladioli Bulbs, per 1000..... 7.50

SEND FOR CATALOGUE.

Vaughan, McKellar & Winterson, - 45-47-49 Wabash Ave., Chicago.

# Cut Flowers

## Wholesale Flower Markets

CHICAGO, April 8.

Roses, Beauties	per doz.	2.00@6.00
Brides		5.00@10.00
Meteor, Bridesmaids, Kaiserin		5.00@10.00
Perle, Gontiers		3.00@6.00
La France, Testout		6.00@10.00
Carnations, common		2.00@5.00
fancy		5.00@7.00
Violets		40@1.00
Narcissus, Romans		3.00@4.00
Callas		5.00@10.00
Harrish		10.00@15.00
Lily of the valley		2.00@3.00
Tulips		2.00@5.00
Von Slons		3.00@4.00
Hyacinths		4.00@10.00
Adiantum		15.00@20.00
Smilax		1.00
Asparagus		50.00@75.00

**W. E. LYNCH,**  
Consignments Solicited. **CUT FLOWERS.**

All Florists' Supplies.  
19 & 21 RANDOLPH STREET,  
Fine Stock a Specialty. CHICAGO.

**A. L. RANDALL**  
Wholesale Florist

Don't Forget that we are at 4 Wash-  
ington St., Chicago.

Write for special quotations on large orders.

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Wholesale Florists.  
**J. B. DEAMUD**  
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404-412 E. 34th St. Near Ferry.  
Open for Cut Flower Sales at 6 o'clock  
Every Morning.....

DESIRABLE WALL SPACE TO RENT  
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Consignments Solicited. Telephone, 260 38th St.

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Commission Dealer in  
**CUT FLOWERS.**

Good Money for your Flowers.  
Good Flowers for your Money.  
49 WEST 29TH ST., NEW YORK.  
TELEPHONE 1675 38th St.

## THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,  
112 and 114 West 24th Street,  
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CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

## ROGERS PARK FLORAL CO.,

Wholesale Growers of  
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HEADQUARTERS FOR AMERICAN BEAUTIES.

# REINBERG BROS.

WHOLESALE GROWERS OF

## ...CUT FLOWERS...

600,000 feet of Glass. We can fill all orders on short notice with all leading varieties of  
Roses and Carnations. We Are Headquarters for Fine American Beauties. Give us a trial and  
convince yourself.

### ROOTED ROSE CUTTINGS

Plants and cuttings sent by express at post-  
paid rates (20 percent less than M. & E. rates).

	Per 100	Per 1000
BRIDE	\$1.50	\$12.50
BRIDESMAID	1.50	12.50
PERLE	1.50	12.50
METEOR	1.50	12.50
AM BEAUTIES	2.50	20.00
BELLE SIEBRECHT	1.50	12.50

### ROSE PLANTS

	out of 2 1/2-inch pots.	per 100	per 1000
American Beauty		\$5.00	\$45.00
Meteor		3.00	25.00
Perle		3.00	25.00
Bride		2.50	22.50
Bridesmaid		2.50	22.50
La France		2.50	22.50
Kaiserin		2.50	22.50
Belle Siebrecht		2.50	22.50
Smilax plants		2.00	15.00

### ROOTED CARNATION CUTTINGS.

	2.00	15.00
JUBILEE		
Wm. Scott	1.00	7.50
Nancy Hanks	1.00	7.50
Tidal Wave	1.00	7.50
Portia	1.00	7.50
Lizzie McGowan	1.00	7.50
Goldfinch	1.00	7.50
Mrs. Thompson	1.00	7.50
Daybreak	1.50	12.50
Emma Woehler	1.50	12.50
Meteor	1.50	12.50
Lizzie Gilbert	1.50	12.50
Harrison's White	1.50	12.50
Bridesmaid	1.50	12.50
Niven	3.00	25.00
Flora Hill	4.00	35.00

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 TELEPHONE 2778 38<sup>TH</sup> STREET  
 SUPPLY ORCHIDS Every day  
 ONLY HOUSE IN NEW YORK HANDLING EXTRA FANCY STOCK FOR SPECIAL OCCASIONS  
 50 WEST 30<sup>TH</sup> STREET NEW YORK CITY

**M. A. HART,**  
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 THE BEST MARKET IN NEW YORK.  
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 Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.  
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**FRED. EHRET,**  
 Wholesale Florist,  
 No. 1403 Fairmount Avenue,  
 Philadelphia. Long Distance. PHILADELPHIA.

**Wholesale Flower Markets**

NEW YORK, April 6.

Roses Beantles	4.00@25.00
Jacqs Brunners	4.00@12.00
Brides, Bride-maids	2.00@ 8.00
" Morgans, Meteor	2.00@ 6.00
Carnations	1.00@ 4.00
Lilies	8.00@12.00
Lily of the valley	1.00@ 3.00
Daffodils, Tulips	1.00@ 2.00
Violets	.25@ .75
Sweet peas per bunch	.20@ .25
Smilax	12.00@16.00

BOSTON, April 6.

Roses Beantles	8.00@25.00
Brunners	8.00@25.00
" Meteor, Kaiserin	4.00@ 8.00
Brides, Bride-maids	4.00@ 8.00
Carnations	2.00@ 6.00
Lily of the valley	1.00@ 3.00
Violets	.50@ .75
Londiforum lilies	10.00@12.00
Tulips, Daffodils, Mignonette	2.00@ 3.00
Sptrae, Stocks	2.00@ 4.00

PHILADELPHIA April 6.

Roses, Beantles select, per dozen	3.00
medium	6.00@15.00
" Brunners	16.00@35.00
" Teas	4.00@12.00
Carnations	1.00@ 2.00
fancy	2.00@ 3.00
Lily of the valley	3.00@ 4.00
Violets	.50@ .75
Narcissus	3.00@ 4.00
Hyacinths	2.00@ 3.00
Harrisii	8.00@10.00
Sweet peas	1.00@ 2.00
Smilax	12.00@15.00

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*N. F. McCarthy*  
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 ROSES, CARNATIONS, VALLEY  
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 Cut Flower Exchange, NEW YORK.



Rose Crimson Rambler.

Crimson Rambler is the greatest rose that has been introduced in modern times. It may not be hardy everywhere, though I have not heard of any place where it is not so. It is distinct in growth and in manner of blooming. The third year after planting it will make canes from eight to fifteen feet in length, and at the base will be nearly as thick as a broom handle. It blooms in clusters composed of large numbers of double flowers about the size of a double cherry blossom. It blooms only once a year, it is true, but it is a grand sight for three weeks or a month after it commences to flower. The flowers are a bright cheerful shade of crimson, and it has a very telling effect in the landscape, no matter whether the garden wherein it is planted is small or in the more pretentious pleasure grounds of the wealthy.

This grand rose has been referred to before as an Easter plant; this gives it additional value, though, personally, I would never have suspected that it would be considered useful for that purpose, but such it is, and in Philadelphia it will be used in large numbers this year. Messrs. Robert Craig & Son, Robert Scott & Son, and Wm. K. Harris saw a future for it and went into it heavily. There is nothing at all like it, or approaches it in effectiveness at this season of the year when well done. Some plants we saw at the Messrs. Craig's had been in bloom for three weeks and they were still in excellent shape, showing how well adapted it is for such a purpose. No other rose that I know would remain salable so long. If I am not mistaken our good friend, Jackson Dawson, should receive the credit for showing the possibilities of this plant for use at Easter, and another good friend, Lawrence Cotter, is entitled to the credit of taking advantage of the fact. Yellow Rambler and White Rambler are both disappointments as Easter plants.

E. L.

Saginaw, Mich.

Mr. Chas. Frueh's private office and workroom have been enlarged and remodeled since my last visit and things about the place in general show marks of improvement of one sort or another.

Mr. Frueh reports a good trade all along the line; it is his opinion that the Easter of '98 will pay and pay well.

Messrs. Wm. Rothke & Sons are likewise sanguine as to the outlook of the Easter and spring trade. Their general stock never looked better.

Grohman Bros. are no longer experimenting with palms, that is to say, they have long since passed the experimental stage and have now reached a certainty. They find that kentias, latanias and arecas, especially the former two, thrive in the Saginaw valley as well as anywhere else on the face of the globe, and hence will continue growing these varieties.

Mr. J. B. Goetz, as usual, extended to the scribe the freedom of the houses. What I saw can be described in a few words, the roses are perfect. Homo.

Wyncote, Pa.

Whether it be in the soil or in the method of growing, the fact remains patent that Mr. Heacock's American Beauties are about as fine as any to be found on the continent. Just now they appear at their best and many an out of town florist, visiting the city of brotherly love avails himself of the opportunity of seeing them. The sight is certainly an

attractive one. Nor are his Areca lutescens less attractive. Clean, healthy and perfect plants is what one beholds when strolling through the houses.

Mr. Heacock reports increased sales, and though somewhat conservative in his predictions, is nevertheless inclined to the belief that things will and are assuming a brighter aspect. Homo.

POLO, ILL.—The new greenhouses of Maurice Miller are completed.

RUDBECKIA "Golden Glow" (HARDY) Excellent for cut flower purposes in late summer. Strong plants, \$6.00 per 100; \$40.00 per 1000. IRIS KAEMPFERI strong clumps in ten varieties, labeled as to color. \$1.00 per doz.; \$6.00 per 100. Edwin Lonsdale, Florist, CHESTNUT HILL, PHILA., PA. Money Order Office, Station H, Phila.

50,000 MARIE LOUISE RUNNERS at \$4.00 per 1000, 60c per 100. Cash with order.

Want to exchange above also for young American Beauties, Wootton and Meteor Roses, as well as all the newer Carnations.

HILLSDALE FLORAL PARK, Hillsdale, Mich.

BUY YOUR ASPARAGUS PLUMOSUS SEED DIRECT FROM THE GROWER. . . . \$1.00 per 100; \$9.00 per 1000.

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CHICAGO'S FAVORITE PASSENGER STATION

Reasonable success seems to have followed the efforts of the management of the Nickel Plate Road to make it popular as a passenger line for travel East. It is regarded as a favorite by many in making the journey from Chicago to eastern points.

Patrons of that line will be gratified to learn that arrangements have been made, effective Sunday, March 6th, for all passenger trains of the Nickel Plate Road to arrive at and depart from the Van Buren Street Station in Chicago.

The many advantages afforded by this Great Union Depot, located in the heart of the business portion of Chicago, and the continued advantage afforded by lower rates than over other lines, having three express trains daily, with through sleeping cars, to New York and Boston, and the advantage of superior Dining Car Service, when all considered, should show increased travel over the Nickel Plate Road.—(8)

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Armstrong's Everblooming Tuberoses A NEW departure in Tuberoses growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November. For Prices and Particulars ...Address... LUTHER ARMSTRONG, 3720 Olive St., ST. LOUIS MO.

Peacock's Prize Winning Dahlias 36 First Prizes out of 39 entries in 1896 and 1897. Send for 1898 illustrated wholesale catalogue before placing orders elsewhere. W. P. PEACOCK, - Atco, N. J.

VIOLET CLUMPS AND ROOTED RUNNERS A No. 1 stock. Clean and healthy. No disease. Lady H. Campbell Clumps... per 100, \$3.00 M. Louise Clumps... 3.00 Farquhar Clumps... 3.00 California Clumps... 3.00 Well rooted runners of the above varieties, \$4.00 per 100 except Farquhar, which is \$5.00 per 1000. Cash with order or satisfactory reference. JNO. F. WALKER, Waldrop, Va.

... THE ... "Lyon-Horticole" is an interesting review of French horticulture. Issued semi-monthly. 20 8-vo. pages illustrated. Subscriptions to the United States, 1 year, \$2.00; 6 months, \$1.00. Address

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THE WABASH R. R. COMPANY The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha. The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City. Through sleeping cars between New York and Boston and St. Louis and Chicago run every day. For further information apply to the nearest Railroad Ticket Agent, or to H. B. McCLELLAN, G. E. A., 387 Broadway, New York City, J. D. McBEATH, N. E. P. A., 5 State Street, Boston, Mass. C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

BALTIMORE, Md.—The inventory of the estate of the late John Bolgiano, seed dealer, showed that the value of stocks in the personal estate was \$114,712.

PARIS.—The retail seed trade is now in the height of the season. To the satisfaction of employers and employes the orders, owing to the mild weather which we have experienced during the whole winter, came in very regularly and not in ups and downs or with too much of a rush as is usually the case when frost and snow alternate with days of fine weather. The plants growing in the fields for seed purposes seem to be in good condition. It is of course too early to predict how the roots will have behaved in the silos and it is only at planting time that we shall know the percentage of heated roots.

ST. PAUL.—L. L. May & Co. report increased sales in all branches of their business. Store sales run from 30 to 50% ahead of last season. Some of this may be attributed to a change of location, but fully 60% of the increase is due to the improved condition of the country. Catalogue business shows an increase of 40% over last season. This trade started earlier than usual, and instead of "dropping off" has been increasing each day since February 1. In the wholesale seed line the regular orders show about 20% increase over last season. Filling in orders are coming in very freely, while grass seed trade is opening up very good. B. F. Brown was a recent caller, and reports his season's out-put of bag-filling machines as very satisfactory. The one in use here has filled nearly 3,000,000 packets since starting in November, and works to perfection.

Court Decision About Seeds.

When the seed warehouse of D. M. Ferry & Co. was destroyed by fire January 1, 1896, there were 996 packages of seeds in the stock upon which the firm had paid \$2,350 duties. The seeds had not then been appraised, and the customs department subsequently refunded \$450. The firm asked the secretary of the treasury to refund the remaining \$1,900, claiming that as the seeds had not been appraised when destroyed, they were, constructively, in the possession of the custom house. The secretary denied the petition, and the firm brought suit in the United States court. Judge Swan held that the court had no jurisdiction—that the decision of the secretary was final. The firm took the matter to the court of appeals, and Judge Taft has handed down a decision sustaining the finding of Judge Swan.

"Fortin Variety" Lily of the Valley.

This is a most distinct improvement on the ordinary variety, judging from a test of a few pips. The pips were sent to Messrs. Bassett & Washburn from Laxton Bros., Bedford, England, by mail, with a request that they test them. They were badly dried out in transit but the results were unusual. In size and number of bells, size of foliage and length and stiffness of stalk they simply dwarfed good specimens of the common variety.



**RAFFIA** BEST QUALITY. LONG MADAGASCAR Having purchased on a very favorable market, and wishing to move the stock quickly, make the following special low quotations for prompt orders.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

G. C. WATSON,

Juniper, below Walnut, - PHILADELPHIA.

1878 1898

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Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

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Mention American Florist.



Large Field-Grown Roots in all the Leading Varieties \$5.00 to \$7.00 per 100.

30,000 DAHLIAS

Before ordering your Dahlia stock be sure and send for my catalogue of novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

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IMPORT ORDERS hooked now for forcing Bulbs, Azaleas, Lily of the Valley, etc., for fall delivery; send for terms to

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NEW GIANT ESCHSCHOLTZIAS,

"THE GOLDEN WEST."

50c pkt., \$8 oz. New Giant Fancy Cosmos, six splendid varieties, separate, \$1 oz.; Giant Cosmos, splendid mixed, 65c oz.; Calliopsis "California Sunbeams," \$1 oz. Special rates given on Cosmos in quantity; Apple Geranium, fresh, \$1 per 1000 seeds; New Large Flowering Zonale Geranium, \$2.50 oz.; Ipomaea, "Heavenly Blue," \$1 oz., \$12 lb.; Laurustinus grandiflora, \$1 oz.; Zinnias, "New Curled and Crested," 50c oz.; \$5 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8 per 15 lbs.; Scaphothia elegans (Palm) 40c per 100 seeds, \$3 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cacti.

MRS. THEODOSIA B. SHEPHERD, Ventura-by-the-Sea, Cal.

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Importers and Exporters of

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501 TO 503 W. 13TH ST.,

NEW YORK CITY.

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The WALKER FERTILIZER CO.

Clifton Springs, N. Y.



Catalogues Received.

Siebrecht & Son, New Rochelle, N. Y., plants; J. F. Wilcox, Council Bluffs, Iowa, plants; E. Y. Teas, Irvington, Ind., trees, shrubs and plants; W. L. Swan, Oyster Bay, N. Y., seeds, bulbs and plants; Lothrop & Higgins, East Bridgewater, Mass., plants; L. L. May & Co., St. Paul, Minn., plants; Thompson's Sons, Rio Vista, Va., fruits; Barr & Sons, London, England, seeds; Sutton & Sons, Reading, England, seeds.

**HARDY CUT FERNS**

\$1.25 Per Thousand After March 1st.



FANCY

DAGGER

Do not order any ferns unless you are willing to pay this price as my stock is very limited and I have hardly enough now to carry my old stand-by customers to Easter.

L. B. BRAGUE, Hinsdale, Mass.

When writing mention the American Florist.

**SMALL GREEN GALAX**

For use with... VIOLETS

Stiff, wiry stems. Work up beautifully. Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000. ....ADDRESS....

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Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

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Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

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50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

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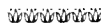
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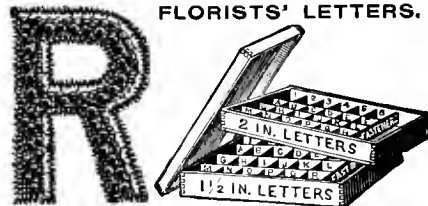


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**Boston Florist Letter Co.**

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$5.00. Script Letters, \$4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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For Decorating and all Florists' Designs. CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

**REED & KELLER.....**

**Florists' Supplies**

122 W. 25th St., NEW YORK CITY.

**Forcing Lilies.**

John F. Kidwell & Bro., 3810 Wentworth avenue, Chicago, have succeeded in growing four crops of lilies a year in the same house, cold frames being used to place the bulbs in after potting and to store them for succession of crops. The 8th of last November they commenced cutting C. Harrisii; by New Year's day the crop was all cut off, a large proportion of it just right for the Christmas holidays. January 3 the house was refilled with L. longiflorum, which had up to this time been kept outside in cold frames. This house of lilies will be as near in perfect condition for Easter as it is possible to get them. March 26 very few flowers had opened, though on a large proportion of the plants the buds had turned white, and the most forward were being removed to a colder house. The plants will all be disposed of soon after Easter, and the house made ready for another lot of L. longiflorum that has been kept out in cold frames all winter, most of the time frozen, though they are now fine sturdy plants that can be flowered easily for Decoration Day. Between the time this crop is off and the time to bring Harrisii in (in the fall) for early flowering, a crop of summer lilies, L. album, L. rubrum and L. auratum are grown, making the fourth crop, and bringing in three out of the four on a holiday.

This they have done for several years in succession, with only one partial failure, a year ago last Christmas, on account of the Harrisii being so badly diseased that they could not be forced in for Christmas and got out of the way in time for the Easter crop. Other space was found for the Harrisii, and the L. longiflorum brought in about January 1, and the usual crop at Easter was produced.

J. T. A.

OSHKOSH, WIS.—A twenty acre summer park is being fitted up by the Citizens Traction Co.

DANBURY, CONN.—A greenhouse belonging to Joseph H. Ives was destroyed by fire on the night of April 1. Cause, overheated furnace. Loss \$500.

TRENTON, N. J.—Died April 2, Mrs. Sarah Wainwright aged 74, wife of the veteran florist Geo. Wainwright, of Trenton, N. J. This estimable couple had trod together life's pathway nearly half a century, and brother Wainwright has the heartfelt sympathy of the large circle of friends and acquaintances gained in his sojourn of over fifty years in New Jersey as a pioneer florist.

BROCKTON, MASS.—A new Brockton florist club has been organized, the former club having disbanded. An enthusiastic meeting was held on the evening of March 29 and officers elected as follows: President, F. K. French, vice president, John McFarland; secretary, W. E. Baker, Campello; treasurer, C. A. Leach; and an executive committee of five gentlemen. It was thought advisable to hold an exhibition in the fall, and a committee to make preliminary arrangements was constituted.

**Greenhouse Building.**

BROOKLYN, N. Y. Baillodouze Bros. three commercial houses, each 20x200. A. Debus, one commercial house, 20x100.

Salisbury, Md. Wm. H. Jackson, one chrysanthemum house 11x17.5.

Providence, R. I. North Burial Ground one conservatory 30x100.



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HYACINTHS, TULIPS, CROCUS, DAFFODILS, AND OTHER BULBS. ALSO SHRUBS AND PLANTS.

THEY are strictly first-class and cheap. Special quotations for Wholesale Importers... Address all correspondence until May 15th to.....

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care J. W. Hampton Jr. & Co., 41 Broadway, New York

**8000 DAHLIAS**

Whole roots, best assorted named varieties, \$6.00 per 100; \$40.00 per 1000.

**THE WM. H. MOON CO.,**

Mention the American Florist

MORRISVILLE, PA.

BEST QUALITY

**HOLLAND BULBS**

LOWEST PRICES

**Jac. WEZELENBURG**

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Address up to May 1 in care of KNAUTH, NACHOD & KUHNE, 13 William St., NEW YORK.

*N. Dames*

of the firm of  
**Vanderhorst & Dames...**

BULB GROWERS

**Lisse and Heemstede, Holland,**

is on his round trip through the United States. To spare time, we beg to send all letters and communications up to May 15, care of

**Knauth Nachod & Kuhne,**  
13 William St., New York.

Give us the list of your wants and we will send you our lowest quotations for real good stuff.

**GLADIOLUS BULBS**

Why not grow your own? I can furnish a large number of half inch bulbs, mixed colors, very fine stock at \$1.50 per 1000. Each thousand will contain over 600 varieties. Lots of 5000 or more sent by express, prepaid. This stock runs so largely to white and pink that some florists said it would almost pass for "White and Light".

**M. CRAWFORD,** Cuyahoga Falls, O.

**VAN HEEMSTRA & CO.**  
**BULB GROWERS**

SASSENHEIM, - HOLLAND.

BEFORE ordering Dutch Bulbs ask our quotations. Our stock enables us to make good offers. Address letters until May 15th to.....

Care KNAUTH, NACHOD & KUHNE, 13 William St., NEW YORK.

BEST QUALITY **HOLLAND BULBS** LOWEST PRICES

**Jac. WEZELENBURG**

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Address up to May 1 in care of KNAUTH, NACHOD & KUHNE, 13 William St., NEW YORK.



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**JAPANESE PLANTS, BULBS, ETC.**

At lowest prices. Small orders filled from experimental garden Columbia Road Dorchester, Mass. Wholesale catalogue, 1898 free to the trade.

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Office: 272 Boylston St., - BOSTON, MASS

**TO IMPORTERS!**

**HAERENS BROS.**

From SAMERGAN near Ghent, Belgium

SPECIAL Growers and Exporters of Azaleas, Tulips, Anemones and other decorative plants, take pleasure to inform you that their Mr. A. C. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their New Azaleas will be the favorites of the future. Write for price list and special offer until May 10th.

**AUGUST HAERENS** CARE OF... VANDERGRIFT CO. 66 Beaver St., New York City.



St. Louis.

Owing to the bad weather recently prevailing here everything has been very quiet. Stock has about equaled demands with a little stiffer prices, owing to the closeness of Easter, and the expectation that stock will be held to some extent until the last moment. The wholesalers are endeavoring to impress shippers with the idea that nothing is to be gained by unduly holding stock, their success will appear later.

Easter prices have been issued by the St. Louis houses, they are about the same as last season, except lilies, which are quoted higher, being from 15 to 18 cents. Roses, small, \$5 to \$7, large \$6 to \$10. Carnations from 3 to 7 cents. Bulb stock is quoted comparatively low, Romans, freesias, narcissus and Von Sion from \$2 to \$4 per 100, and valley 3 to 4 cents.

Quite a nice lot of pot plants are on time; each grower having something in good shape; Andrew Meyer has a fine lot of mignonette, short bushy plants well flowered; these when worked into 7 and 8-inch pans make beautiful center pieces and sell readily.

Growers and dealers are still careless in small matters, one firm reports that out of six growers sending in plants only one had the pots cleaned; practices such as this should be stopped, and could readily be changed if the dealers called for clean pots when ordering plants. It is too early to form a correct idea of Easter trade, but the outlook, judging from preparations made is for a heavy increase in business. May it materialize.

R. F. T.

Indianapolis.

Business has been very good; cut flowers sold well, also pot plants, and the early spring stock, such as pansies, etc., were in great demand during the warm spring days.

The florists have all made great preparations for Easter. They will have a good supply of blooming plants. Cinerarias, azaleas and bulbous stock predominating. Unfortunately the lily disease has proved very troublesome, some of the local florists report a loss of 50%.

The Easter prices for cut flowers will be 25 to 30% higher than last year. Good violets will be scarce. The warm weather in March brought them out too early, consequently they are now off crop.

At the monthly meeting of the Florists' Club, held April 5, Mr. Hatfield read an interesting paper on "The Influence of Light on Plant Life," which contained many pointers for the practical grower. The paper read will appear in print in the annual report of the I. S. F. A.

The flower thief is again at work; the Florists' Club has offered a reward of \$25 for the arrest of the guilty person. Mr. Thornton was elected a member of the club. After the meeting adjourned the members all had a jolly time singing the latest songs, with a cake walk and several jig dances.

The florists' bowling club, lately formed, is flourishing.

OCEANO, N. J. The Monmouth County Horticultural Society has made arrangements to distribute in May 2,500 diverse plants such as geraniums, fuchsias, heliotrope, coleus, etc. to the children under 15 years of age in the various schools in Monmouth county. The plants are to be grown for competition. N. B.

# Areca Lutescens

LARGE HEALTHY STOCK

3 Plants, 6-in. Pot, 24 to 32-in. high, very bushy, each	\$1 00
3 " 7-in. " 32 to 36 " " " "	1.50
3 " 8-in. " 36 to 42 " " " "	2.00
3 " 8-in. " 42 to 48 " " " "	2.50
1 " 10-in. " 4 to 5-ft. high, " " "	5.00

ALL MEASUREMENTS FROM TOP OF POT.

JOSEPH HEAGOCK, WYNCOTE, Phila., Pa.

## PALM Seed.

FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA	\$1.00	\$7.50	\$20.00
LEITANIA BORBONICA	.50	3.10	7.50
KENTIA BELMOREANA	1.00	7.00	20.00
" FORSTERIANA	1.00	7.00	20.00
ASPARAGUS PLUMOSUS NANUS	1.50	12.50	35.00
" CANARIENSIS	1.50	12.50	35.00
" SPRENGERII	1.50	12.50	35.00

J. L. SCHILLER, 404 E. 34th St., NEW YORK CITY. Please mention American Florist.

## Crotons...

IN VARIETY

Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Lineata, Andronum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.

Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$5 per 100.

Edwin Lonsdale,

Florist, CHESTNUT HILL, PHILA., PA.

## ORCHIDS ORCHIDS

Crowing and Importing of ORCHIDS

Our Specialty. Correspondence Solicited.

LAGER & HURRELL, - Summit, N. J.

Mention American Florist.

## SOLANUM WENDLANDI

The most showy semi-climber of recent introduction. Strong 3 inch plants now ready. Also Little Gem Collins, 2 1/2 inches Logan Berries, Strawberry Raspberries, Mayberries. Write for list and prices.

The Conard & Jones Co. WEST GROVE, PA.

ROBT. CRAIG & SON

Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA, PA.

## DWARF PAPAYAS

MOST magnificent bedding and decorative plant known. Equal to a palm in beauty and manner of growth; grows with the ease of the Ricinus and endures drought with impunity. Plant from 4-in. pots set out June 1st attained a height of 10 feet and though not watered once, remained fresh and vigorous throughout the extreme drought. Also produces a delicious fruit; as easily grown as a tomato. Our plants are propagated from a tree which has produced this winter 192 lbs. of fruit, the largest weighing 12 lbs. Send for half-tone illustration from photo showing bed of these plants. Every florist needs it. Price \$2.25 per 12 for 3-in. pots, ready May 1st. We are headquarters for tropical plants. Send for list.

Martin Benson,

DONGOLA, - - ILLINOIS.

...FINE...

## DECORATIVE PLANTS

JOHN H. LEY, Good Hope, D. C.

Solicits early orders for following fine stock:

NEPHROLEPIS, D. Furcans	Each.	Doz.
3 to 4 feet over, full, splendid plants 50 or more fronds (in pans)	\$2.00	\$18.00
NEPHROLEPIS, D. Furcans		
Very large, full of fronds, 3 feet over (6-inch pots, fit for 8-inch)	1.00	9.00
NEPHROLEPIS, Bostoniensis		
Same size as above	1.00	9.00
Fine for hanging baskets, fronds drooping 3 to 4 feet below	2.00	18.00
Lomaria Gibba, 4 inch, very strong		1.00
Pandanus Ultra, 5-inch, very strong		4.00
Nephrolepis Exaltata, 4-in., very strong	\$10 per 100	1.50
Ferns from bits, fine little plants	10 100 per 1000	
100 in 10 sorts mailed as sample for \$1.25.		

## AM. BEAUTY

I have a nice stock for early planting; 2 1/2 in. pots, \$6.00 per 100; 4-in. pot 100;

4-in. pots, extra strong, \$10.00 per 100; a few 5 in., \$13.00 per 100. California Violets, extra large clumps, \$5.00 per 100, will divide up into 10 to 15 plants. Austria Carnus, strong plants @ 25.

W. W. COLES, Kokomo, Ind.

## Hydrangeas FOR Easter.

Fine plants with 10 to 30 blooms per plant, 10 cents per bloom...

JOHN SCOTT, Keap St. Greenhouses, BROOKLYN, N. Y.

## Rose Hill Nurseries

LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Aracaceae, Pandanus...

SIEBRECHT & SON, New Rochelle, N. Y. New York Office, 409 Fifth Ave.

# CARNATIONS

**STRONG, HEALTHY ROOTED CUTTINGS**  
Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**

Lock Box 11. GRAND RAPIDS, MICH.

## Flora Hill

AND 25 OTHER VARIETIES, LOW TO CLOSE OUT.....

GRAFTED TEA ROSES, \$15 per hundred.

H. F. LITTLEFIELD, Worcester, Mass.

## 20,000 CHRYSANTHEMUMS.

2 1/2-inch pots.  
Major Bonnafon, \$2.00 per 100 or \$15.00 per 1000; President Smith, Eda Prass, \$1.50 per 100 or \$12.00 per 1000. **Ceraniums**—the best mixed varieties for bedding, 3 1/2-inch pots, showing buds, \$2.50 per 100 or \$18.00 per 1000; 2 1/2-inch pots, \$2.00 per 100 or \$15.00 per 1000. Cash with order or satisfactory reference.

**PAXTON GREENHOUSES,**

C. E. Taube, Prop. Harrisburg, Pa.

## Geraniums . .

We have several thousand good bedding varieties, comprising all the principal colors, mostly double, rooted cuttings, mixed, at \$1.00 per 100.

Cash with

Order.

**H. B. WEAVER & BRO.,**

WHEATLAND MILLS, Lanc. Co., Pa.

Money order office, Lancaster, Pa.

## ROSES, VERBENAS, VIOLETS

Finest Teas and Hybrid Teas, clean, healthy, 10 to 15 inches high ..... \$4.00 per 100  
Verbenas, best colors, 2 1/2 inch pots, 2.00 per 100  
Violets, California, well rooted, 1.50 per 100  
Calla Lilies, 5 and 6 inch pots, ..... \$10.00 per 100

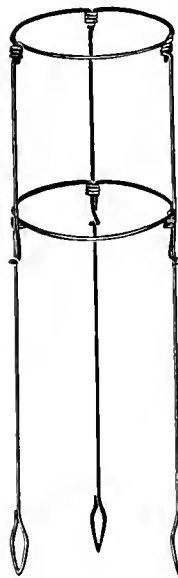
Invariably at these prices.

Cash with Order.

**F. WALKER & CO.**

Box 316, New Albany, Ind.

## THE MODEL.



QUEENS N. Y., Feb. 16, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.  
Very truly yours,  
C. W. WARD.

FLATHUSH, BROOKLYN, N. Y., Feb. 18, '97.  
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,  
DAILEDUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am  
Yours truly, E. ASMUS.

**THERON PARKER,** 22 Morton St. BROOKLYN, N. Y.

Say "saw your ad. in the Florist" when you write advertisers.

## Chrysanthemum Mrs. A. F. Wienold

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Bergmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2 1/2-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

**CAL. VIOLETS.** No disease. Strong runners. 50c per 100; \$4 per 1000.

**MCDONALD & STEELE,** Crawfordsville, Ind.

## Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

**E. J. PADDOCK,** 295 Erie St., CLEVELAND, OHIO.

## "BOSS" Chrysanthemums

WM. H. CHADWICK—the grandest white novelty of the season. THE YELLOW FELLOW—Winner of \$100 Stearns bicycle prize. MADELINE PRATT—"As pretty as her picture."

Distributed March 1st by leading firms and the grower.....

**Grove P. Rawson,** Elmira, N. Y.

## Kathleen Pantlind

DAYBREAK x SCOTT.

Price \$1.50 per 12; \$10.00 per 100; \$75.00 per 1000.

Premium—5 Red Wave with every 100 Kathleen Pantlind.

## HOPP & LEMKE,

Paul P. O., E. GRAND RAPIDS, MICH.

## To Make Room

Aster Plants.....@ 60c per 100 or \$5.00 per 1000  
Pansies, small transplanted plants, 60c per 100 or \$3.00 per 1000.  
Salvia Clara Bedman, 2 1/4-in. Pots.....\$1.50 per 100  
Feverfew Little Gem, " ".....\$1.50 per 100  
Lycopodium Denticulatum, 2 1/4-in. Pots.... 1.50 per 100  
Althemanthera aurea nana and P. major, 2 1/4-in. Pots, \$1.50 per 100.  
Strong, R. C. Carnations, 20 varieties. Send for price list. Above stock is unusually strong and grown cool.

## The Morris Floral Co., MORRIS, ILL.

## CARNATIONS

STRONG ROOTED CUTTINGS.

Scotts, McGowans, Rose Queen. per 100, \$1.00; per 1000, \$8.00.  
Hydrangea Otaksa, per 100, \$1.75.

Cash with order. **D. Y. DANENHOWER** 52nd and Woodland Ave., Philadelphia.

## ALBA SUPERBA

The Gardenia Carnation.

Plants Now Ready \$10.00 per 100 60.00 per 1000

**JOHN BURTON,**

Chestnut Hill, PHILADELPHIA, PA.

Please mention the American Florist

## REDUCED PRICES

—Very Fine Rooted—

## Carnation Cuttings

Taken from our "Prize" Stock.

**MCCOWAN ALASKA ALBERTINI**  
**HELEN KELLER ARMAZINDY**  
DAYBREAK  
\$2.00 per 100; \$15.00 per 1000.

**SOUTH PARK FLORAL CO.,** New Castle, Ind.

## New CARNATIONS.

**WHITE CLOUD**—White.  
**GOLD NUQUET**—Yellow.  
**NEW YORK** (Ward)—Bright cerise pink.  
**MRS. JAMES DEAN** (Ward)—Clear silvery pink.  
**JOHN YOUNG** (Ward)—White.  
**BOB TON** (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons).

All good 1897 novelties and other standard varieties at reasonable prices.

## New Chrysanthemums.

**MRS. C. H. PEIRCE**—Yellow. 35c each, \$3.50 per doz., \$25.00 per 100.  
**SNOW QUEEN**—White. 50c each, \$5.00 per doz., \$35.00 per 100.  
**MERRY CHRISTMAS**—Late White. 35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898.

## F. DORNER & SONS CO. LAFAYETTE, IND.

## NATHAN SMITH & SON

Wholesale Florists

Specialties.  **ADRIAN, MICH.**

**CHRYSANTHEMUMS**

**CARNATIONS**

**AND VIOLETS.**

... CORRESPONDENCE SOLICITED ...

## SWELL YOUR BANK ACCOUNT

By growing Emily Pierson Carnations, the most profitable Red Carnation in cultivation. Clean healthy grower. Large full flowers with fine stem. Our house, 70x20 feet, from which we have been cutting since September, has 20,000 buds in sight to-day. We can supply fine rooted cuttings at \$1.00 per 100, \$8.00 per 1000. Cash with order.

**South Side Floral Co.,** Springfield, Ill.



## April Offer.

Per 100  
 Alternanthera A. Nana, \$1.75; P. Major.....\$2.00  
 Begonias, 5 var.—Vernon..... 2.50  
 Coleus Asst. and Centaurea Gymnocarpa..... 2.00  
 Geraniums, 16 Var., 2½-in. pots, \$2.50; 3-in. 3.75  
 Geraniums, 4-in. pots and Marguerites (Paris  
 Daisy)..... 5.00  
 Pansy plants from cold frames and Smilax.... 1.00  
 CASH PLEASE.

JOS. H. CUNNINGHAM, Delaware, Ohio.

## Geranium "Mars"

Special Certificate of Merit.

The best selling, most floriferous and dwarfed Geraniums ever introduced.....

—FOR SALE BY—

HENRY A. DREER, Philadelphia, Pa.  
 F. R. PIERSON CO., Tarrytown, N. Y.  
 J. C. VAUGHAN, Chicago, Ill.  
 COTTAGE GARDENS, New York.  
 AND THE INTRODUCER

HENRY EICHHOLZ, - Waynesboro, Pa.  
 FRANKLIN CO.

### ROOTED CUTTINGS

Coleus in ten best varieties including Golden Bedder, 75c per 100; Heliotropes, Ferretfew, Petunias, Double Alyssum, Giant Parle Dalies, Mammoth Verbenas, ten distinct varieties, \$1.50 per 100; Chrysanthemums, Queen of the Barles, Barbara Forbes, Dalled uze, Golden Trophy, Miss Johnson, M. Henderson, Modesto, Indiana, Mrs Perrin, Mrs. Mureock, Sunderbruch, Lady Playfair, Mayflower, &c. \$2.00 per 100. Discount of 20 per cent. on orders of 500 or more at one time; all well rooted. Address  
 ROSEMONT GARDENS, Montgomery, Ala.

## Alternanthera. ROOTED CUTTINGS.

Fine stock P. major and A. nana 90c per 100;  
 \$6.00 per 1000. Ready April 15.

HOFFMEYER, Box 31, Carnegie, Pa.

## COLEUS Routed Cuttings Well Rooted...

Scarlet Verschaffeltii, Golden Verschaffeltii, Fire King, Fire Brand, Tam O'Shanter, S. P. Gem, Alhambra, Golden Crown, Midnight, Salvator, John Goode, Nigger, 15c per doz.; 75c per 100; \$5 per 1000; express paid.

S. T. DANLEY, Macomb, Ill.

**The Cottage Gardens**  
 QUEENS, L.I.  
 Specialties in CARNATIONS, CHRYSANTHEMUMS,  
 CANNAS, GERANIUMS, DAHLIAS.  
 SEND FOR OUR PRICE LIST

## PANSIES THE JENNINGS STRAIN. THEY ARE GRAND.

Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Semple's pink, \$1.00 per oz. Cash with order.

E. B. JENNINGS,  
 Lock Box 254. SOUTHPORT, CONN.  
 Grower of the Finest Pansies.

## THE AMERICAN FLORIST'S COLOR CHART

is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.

PRICE 15 CENTS POSTPAID.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago

## 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.

**NO RUST OR MILDEW.**

**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

## VERBENAS.

The finest collection in America, 35 varieties, every one a gem—mammoth size, striking colors, green as grass. Strong rooted cuttings, 60c per hundred; \$5.00 per thousand; five thousand, \$20.00. New Yellow Marguerite finest variety, strong 2-in. pot plants, 3c; rooted cuttings, 2c.

STRICTLY CASH WITH ORDER.

SOUTH SIDE FLORAL CO., Springfield, Ill.

## West Islip Greenhouses MARIE LOUISE VIOLETS

Rooted Runners, \$4 per 1000.  
 Cash with order.

E. B. SUTTON, Jr. P. O. Address....  
 BABYLON, N. Y.

## GREEN AS GRASS.

MAMMOTH VERBENAS

Fine selected stock in separate colors.  
 Rooted cuttings, per 100, 75c; per 1000,  
 \$6.00. Cash with order.

FRANK S. PAYNE, Barnard Crossing, N. Y.

## PANSIES

ROEMER'S Prize Pansies; extra fine stock plants from cold frames, in bud and bloom; transplanted in September; plants measure from 2 to 4 inches in diameter; by express \$1.50 per 100; \$12.00 per 1000; medium size plants transplanted in October, 75c per 100; \$5.00 per 1000. Cash with order; sample plants 6 cts.

PETER BROWN,  
 Lancaster, Pa.

## PANSIES WE grow over a million from the choicest seeds of Bugnot, Cassier, Odier and Trunardeau.

transplanted last November in cold frames; large plants now ready to bloom, 60c per 100; \$4.00 per 1000; Mammoth Verbenas, 70c per 100; \$5.50 per 1000; Double Golden Dwarf Marguerite Cuttings, \$1.00 per 100.

WHITTON & SONS, Wholesale Florists,  
 City and Green Sts., - UTICA, N. Y.

## FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,  
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 Correspondence solicited.

## SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.  
 CARNATIONS, for fall delivery.  
 CHRYSANTHEMUMS.  
 SMILAX.  
 VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

If corresponding with an advertiser at any time, say "saw your ad. in the AMERICAN FLORIST."

## CLEMATIS Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00

H. P. Roses Strong, 2 and 3 years own roots.....\$1.50 \$10.00

RED JACKET GOOSEBERRY, only large native red..... .75 \$4.00

DOWNING, best for general crop, special prices.

PAEONIES, fine ass't of colors and kinds \$1.25 \$8.00

SMILAX, extra strong plants..... \$2.50

F. A. BALLER, Bloomington, Ill.

## KLONDIKE

Cold Fields at Your Door.

COLEUS—All kinds, all grades and all prices. Verschaffeltii and Queen, 75c per 100; \$6.00 per 1000; 2½-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 50c per 100; \$1.50 per 1000; 2½-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 80c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 1000; \$1.50 per 100. Anthemis Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthers Paronychioloes, Major and Andrea, Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2½-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2½-inch pots, \$2.50 per 100; Mme Sallerot, flat, \$1.25 per 100; \$10.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000. The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.

## CARNATIONS AND COLEUS

### ROOTED CUTTINGS

THE 1898 INTRODUCTIONS  
 THE 1897 INTRODUCTIONS

DAYBREAK of special quality.  
 ROOTED COLEUS in variety.  
 Good stock only. Price list free.

DAN'L B. LONG, Growers' Agent,  
 BUFFALO.

### 5,000 SMILAX...

From flats, by mail, 50c per 100 \$4.00 per 1000  
 From 2-inch pots, \$2.25 per 100 \$15.00 per 1000  
 Geraniums from 2-inch pots, \$2.25 per 100  
 \$20.00 per 1000. Cash with the order. Send for samples. Fred Boerner, APE MAY CITY, N.J.

## Marie Louise Violet Runners

Good plants, healthy stock, \$5.00 per 1000.

A. WASHBURN & SON  
 BLOOMINGTON, ILL.

## LETTUCE AND OTHER...

### VEGETABLE PLANTS

LETTUCE Big Boston, Boston Market, Tennis Ball, Grand Rapids and Rechner's Foreing. 15 cts. per 100; \$1.00 per 1000

TOMATO, CABBAGE AND CELERY—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.

CAULIFLOWER, Snowball—35 cts per 100; \$2.50 per 1000; If by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.

Rose Queries.

LEAFLESS AMERICAN BEAUTY CUTTINGS.

ED. AM. FLORIST:—What would you advise doing with American Beauty cuttings that have lost foliage in cutting bench from black spot? Some of them are rooted. J. E. C.

It would hardly pay to try to do anything at all with such cuttings, as in all probability it would mean just so much time and labor lost; occasionally such plants recover and do fairly well, but more often they are ruined irretrievably. ROBT. SIMPSON.

BONE MEAL AND HEN MANURE IN ROSE SOIL.

ED. AM. FLORIST:—Please let us know through the AMERICAN FLORIST how much bone meal to use in rose soil for benches of a house 20x100 feet, and when it should be mixed in the soil. State also quantity of hen manure required for another house of the same size. G. Bros.

From 100 to 125 pounds of bone meal (pure) is a fair allowance for a house of the above dimensions. Some growers mix it through the compost heap when turning in the early spring, and if the bone is at all coarse this is the best method to adopt as more time is given for decomposition. When ground very fine it is almost as light as air-slaked lime and if used outdoors much might be carried away with the wind, on that account it is more convenient and probably equally effective if scattered over the soil on the benches and mixed through immediately before planting.

Have never mixed hen manure with soil for roses, though I have frequently used it in the form of liquid manure; have had a little experience with it in carnation soil and the results were very satisfactory. We used it at about the rate of two flour barrels to a house 20x100 feet, first running it through a three-quarter inch screen, then spread it over the surface of the benches and worked it in by hand. Would not advise a heavier dose for roses. ROBT. SIMPSON.

MARECHAL NIEL NOT BLOOMING.

ED. AM. FLORIST:—Would you kindly tell me through the columns of your paper the cause of the Marechal Niel rose not blooming, or what to do to make it bloom. It is a good thrifty bush, has good place in rose house, is five years old

and has only once or twice produced a few buds. It was cut away back several times and made new growth again but failed to bloom. Nearly all the roots were cut away, but the plant grows just as fast. J. W.

One or more questions similar to the above have been answered quite recently in the columns of this paper, and I think very little can be added to those replies now that will be of special value in this particular case.

J. W. may not be aware of the fact that Marechal Neil, like all other roses of its class must be treated entirely different from the ever-blooming tea section. Plant a Marechal Neil on a bench with tea roses, and give it the same liberal treatment, and you will be rewarded with fine growth and foliage, but like the barren fig tree there will be "nothing but leaves." In a general sense the culture recommended for the hybrid perpetual class will answer for this rose also with this difference, that while the former are pruned back hard once a year the latter re-

quires comparatively little pruning—merely taking the ends off the strong shoots and trimming away the small brushy wood. Maturing the growth and ripening the canes is the all important feature. If nature's plan can not be copied under glass, as would seem improbable in this case, we must use artificial means. When the plant stops growing in the summer commence by admitting all the air you can without injuring other plants in the house and withhold water at the root—give only enough to prevent shriveling for about six or seven weeks, then prune and start into growth. ROBT. SIMPSON.

WEST CHICAGO, ILL.—Anthony Warne-mont will commence building a new greenhouse early in April.

SAN DIEGO, CAL.—March 23 a steamer brought up nineteen boxes of rare plants from isolated portions of the Lower California peninsula, consigned to an eastern institution. They were gathered by C. A. Purpus, a botanist.

# SCOTT'S ROSES!

## AMERICAN BEAUTY

Now ready to ship. Plants from 2½-inch pots. . . . . \$6.00 per 100; \$50.00 per 1000.

ULRICH BRUNNER. Strong plants of hard wooded cuttings, from 2½-inch pots, \$1.00 per 100; \$35.00 per 1000. This is gilt edged stock, and has a reputation of its own. Last year we could have sold 10,000 plants after our stock was sold. Sample for 10 cents.

NEW DWARF CANNA GLORIOSA, without exception the most useful and beautiful Canna yet introduced. Plants, from 3-in. pots, \$2.00 per doz.; \$12.50 per 100.

CANNA FLAMINGO, dormant roots, \$8.00 per 100.

CANNA PAUL MARQUANT, dormant roots, \$2.00 per 100; \$15.00 per 1000.

CANNA CHAS. HENDERSON, dormant roots, \$2.00 per 100; \$15.00 per 1000.

BRIDE, BRIDESMAID, PERLE DES JARDINS, METEOR and CARNOT, from 2½-in. pots. Write for prices....

—ORDER NOW—

### ROBT. SCOTT & SON,

19TH AND CATHERINE STS.,

PHILADELPHIA, PA.

# Roses! Roses! Roses!

Extra fine selected stock of all the leading varieties.

Bride, Bridesmaid, Catherine Mermet, Madame Hoste, Mrs. Pierpont Morgan, Perle des Jardins, Meteor, at \$5.00 per 100. La France, Kaiserin Augusta Victoria, Mrs. W. C. Whitney, Souvenir de Wootton, Madame Caroline Testout and Pres. Carnot at \$5.50 per 100. Clara Watson and American Beauty at \$8.00 per 100.\*\*\*

WRITE FOR SPECIAL PRICES FOR LARGE QUANTITIES.

JOHN N. MAY,

Summit, New Jersey.

## ROSES...

PERLES	} Pots 100 Pots 100				
METEORS		2½	\$2 50	3	\$3 50
BRIDESMAID					
BRIDE					

Guaranteed first-class. Stock grown in low temperature.

THE E. HIPPARD CO., Youngstown, Ohio.

### 300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb Wootton, Pres Carnot and 100 other leaders in Teas, H. Teas and Climbers. Moon Vines, \$2 50 per 100.

Send for prices

The National Plant Company, Dayton, Ohio.

## NEW FORCING ROSE

### MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2½-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

H. WEBER & SONS, Oakland, Md.

## FINE ROSE STOCK

In 2 and 3-inch Pots.

Write for prices of kinds I want.

12 Best Varieties of Carnations in 2-inch pots, ready to pot out. Write for prices. Send 50¢ for catalogue. Free! Stock in 2-inch pots.

GEO. A. KÜHL, Pekin, Ill.

## ROSES OWN ROOTS. DORMANT. FIELD GROWN

IN COLD STORAGE IN CHICAGO.

No. 1. 2 to 4 feet, cut back to 2 feet

Yellow Rambler (Aglara)

Hybrid Perpetuals,

Mosses, Hardy Climbers

and Madam Planter

W. F. HIKES, Manager,

1308-1310 Unity Bldg., CHICAGO, ILLS.





Milwaukee.

While trade has not been heavy during the week, it has had the effect of creating that impression from the fact that roses and carnations have been scarce; the indications are that all flowers will hold out the demand over Easter, excepting carnations and potted lilies.

There have been a few decorations here this week which have won considerable praise, the principal effects of which were produced by large branches of Forsythia suspensa and Spiraea Van Houttei in full bloom, a few sprays of light colored asparagus vine and an undergrowth of bulb flowers, occasionally dentzia has been used, also lilac. Roses were "not in it."

There has been some animated gossip lately about wholesale dealers supplying direct to the retail trade.

Some of our florists have discovered that the best place to look for stock when they run out is to send to some of the fakirs; they most always have the stock below wholesale rates, so we are told.

W. A. Kennedy, of Lake Forest, Ill., has leased the Deuster greenhouses for a term of three years at \$1000 per annum.

W. G. Schucht has left the Espenhein Dry Goods Co. and started a florist store on Ogden avenue near Franklin street.

Fred. Schmeling has secured the contracts for furnishing the plants required for the city parks.

A. Billings, of Cudahy, is the lily king this season. They are longiflorums. They will make his pocket book long also.

C. B. W.

LOS ANGELES, CAL.—The California Fruit Growers' Convention will be held here April 11 and 12, and at Riverside April 14 and 15. It will be under the auspices of the State Board of Horticulture.

Scollay

Sprinkler....

INDISPENSABLE

J. A. Scollay, Maker,

71 Myrtle Ave.

Brooklyn, N. Y.

VAUGHAN'S SEED STORE, Gen'l Western Agents, 84 Randolph St., CHICAGO.



Tobacco

STEMS DUST EXTRACT

BOTTOM PRICES.

VAUGHAN'S SEED STORE,

Chicago. New York.

**THE MALTESE CROSS BRAND**  
**THE VERY BEST OF GARDEN & LAWN**  
**H O S E** **TRADE MARK**

if your dealer does not have it, send direct to the manufacturers  
 35 Warren Street, NEW YORK. **The Gutta Percha & Rubber Mfg. Co.** 96 Lake Street, CHICAGO.

Kraft's Plant Tonic

For Plants, Palms and Flowers

A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale.....

The Tonic makes the foliage of the plant soft and pliable and a beautiful bright green. For sale at.....

84 & 86 RANDOLPH STREET, CHICAGO.

VAUGHAN'S SEED STORE,

14 BARCLAY STREET, NEW YORK.

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HAS COME TO STAY ON ITS .....OWN HOOK

**THE SALEM COCOA NUT FIBRE CO.** Will ship to any part of the country at \$9.00 per ton. F. O. B. at Salem, MASS.

**W. S. WARD, Mgr.,**  
 Office: Federal Street, - SALEM, MASS.

**NIKOTEEN**

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABURA DIP CO. CHICAGO.

**Kill AND SAVE the BLOOMS the Bugs!**  
 QUICKLY DOES IT.

WOODEN LABELS for FLORISTS and NURSERYMEN

Being located at the head center of this country for White Pine Lumber we are able to buy our stock right and furnish our customers with goods of the best quality and at prices which will put them at your station lower than the lowest. Our factory is thoroughly equipped and turning out promptly the most uniform, smooth and best painted goods made in this country, put up in neat packages, guaranteed full count and nicely crated.

SEND FOR SAMPLES AND PRICES.

WOODEN GOODS COMPANY, 83 Western Ave., MINNEAPOLIS, MINN.

**PURE BONE FLOUR.** Ammonia.....14.65% Bone Phosphate.....6.4%  
 Ammonia.....4% Bone Phosphate.....5%  
**PURE DRIED BLOOD.**

Send for prices and references.

**GEO. S. BARTLETT,** SUCCESSION TO  
 CINCINNATI, O. Cin'ti Desiccating Co.  
 1255-1257 West Sixth Street.

**THE BEST FOR ALL Florists**

**ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE**

FOR SALE BY SEED STORES  
 FOR FREE SAMPLES WRITE TO  
 LOUISVILLE SPIRIT CURED TOBACCO CO  
 LOUISVILLE, KY

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Mention the American Florist when writing to advertisers on this page.

The Only Machine....

on the market for automatically filling and sealing seed packets. \* \* \* \* \*

The Brown Bag-Filling Machine Co.

FITCHBURG, MASS.

To Seedsmen

Cincinnati.

Trade conditions during the past week were after all much better than we anticipated at last report, and but little stuff went to waste.

The Sixth street flower market was well stocked last Saturday with choice plants of every description; flowering plants moved better than any of the previous weeks, but prices ruled rather low. Messrs. George and Allen brought in the first sweet peas last week which are excellent and find a ready sale.

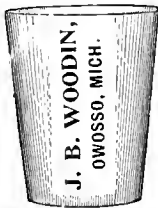
April 4 we had the worst spell of weather of the season, the thermometer registered twenty above zero on the morning of the 5th with one inch of snow on the ground.

Early fruit all through this part of Ohio has been greatly injured.

Mr. Walter Gray, of College Hill, auctioned off his surplus stock of bulbs, flowering and foliage plants at the auction house of Ezekiel & Co. on Main street, April 6.

The regular monthly meeting and flower show of the Cincinnati Florists' Society will be held the third Saturday of this month April 16, instead of the second, as heretofore. A full attendance is expected. H. SCHWARZ.

Jute Fibre Flower Pots...



The Finest Thing on Earth for Shipping Plants.

Very Strong, Light, Neat and Attractive

Send 5 cts. stamps for samples and low prices.

J. B. WOODIN, - Owosso, Mich.

Standard Pots Made by

Good Railroad Facilities For shipping. Special Attention Given to Mail Orders, and Special Sizes Made to Order. KELLER BROS. NORRISTOWN, PA.

Price Lists Furnished on Application.

STANDARD FLOWER POTS.

We have 50,000 4-in. Pots that we will close out at \$7.00 per 1000; 500 at same rate. Send for price list for other sizes. ...Address...

HILFINGER BROTHERS POTTERY FORT EDWARD, N. Y.

FLOWER POTS ALL KINDS.

STANDARD POTTS A SPECIALTY

List and SAMPLES FREE.

J. G. SWANN'S SONS, P. O. Box 78, MINNEAPOLIS, MINN.

H.M. HOOKER COMPANY. COR. CLINTON and RANDOLPH STS. CHICAGO. GREENHOUSE GLASS OUR SPECIALTY. LARGE STOCK PROMPT SHIPMENT. ALSO MANUFACTURERS OF Pure Linseed Oil Putty, Paints, Brushes Etc. WRITE FOR LATEST PRICES

SYRACUSE POTTERY CO. Flower Pots, MANUFACTURERS OF

Bulb Pans, Hanging Baskets and Saucers

OUR FLOWER POTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Poro Pot." They are more Porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

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Standard Flower Pots...

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.

CAMBRIDGE TILE MFG. CO., Covington, Ky.



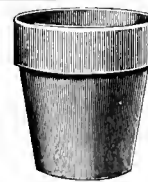
STANDARD FLOWER POTS FERN PANS and AZALEA POTTS...

OLD RELIABLE MAKE OF Elverson, Sherwood & Barker.

Write for price list. Address

PITTSBURG CLAY MFG. CO.,

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GEO. KELLER & SON, MANUFACTURERS OF Flower Pots.

Before buying write for prices. 361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

Mention American Florist.

THOSE RED POTTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTTS.

DETROIT FLOWER POT M'FY,

HARRY BALSLEY, DETROIT, MICH., Rep. 490 HOWARD ST.

Standard FLOWER POTTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST,

Station M, N. E. WASHINGTON, D. C.

of GLASS

SEND FOR IT.

John Lucas & Co. PHILADELPHIA.

KEY TO USES

St. Paul.

Trade is quite brisk and is growing better each day. All stock is in good demand, the greatest call being for carnations, roses and violets, in the order named. The supply is about equal to the demand, though several shipments from Chicago and Milwaukee were noted last week. Bulbous stock is somewhat scarce owing to the bulk of the stock being held for Easter trade. Funeral work which has been rather slack for a few weeks is again in good demand. Shipping orders are coming in rapidly and all stock is being disposed of to good advantage.

The outlook for Easter is exceptionally good. Inquiries are numerous and orders already booked are of good size. There is a fair supply of good stock. Lilies are somewhat scarce, owing to the disease, good sales during the winter months, and a smaller number being planted. There is also a short supply of good azaleas. Growers should make a note of these items when laying in next season's supplies. There is plenty of bulbous stock, such as tulips, hyacinths, narcissus, etc., all of which come in handy for assorted boxes. Smilax is scarce; the wild southern article will most likely be used in church decorating more than formerly.

Retail prices for Easter are quoted as follows: Roses, \$1.50 to \$2.50 per dozen; carnations, 75 cents to \$1; cut lilies, \$3; valley, tulips, etc., 75 cents; violets, \$2 to \$3 per 100. In the plant line Harrisii are held at 20 to 25 cents per bloom. Azaleas twelve inch heads \$1.50 and upwards. There is a good church plant in Spiraea compacta multiflora, and those who have not grown this beautiful plant should lay in a supply another season. Its first cost is small 8 to 10 cents at the outside in small quantities, while a well grown plant will sell readily at 75 cents to \$1. We notice in our travels one lot of hydrangeas in 9-inch pots that would be very hard to beat. They were imported plants last fall, strong heavy roots and showing large clusters of bloom. This is another most profitable plant, and if well grown, will sell as well as in years gone by. The plant and flower buying community are not clamoring for novelties as much as some of our friends would make us believe. What they do want and will buy is superior grown stock.

The drummers have been coming our way of late, the arrivals since my last report being H. C. Sim, of H. A. Dreer Co., B. F. Brown, of Fitchburg, Mass., F. F. Baggerly, of Hennecke & Co., Milwaukee, the genial representative of A. H. Hews & Co. and Mr. Van Zanten, of Lisse, Holland.

The heaviest snow storm of the season came on Sunday last. Some glass was broken by the immense weight of snow. F.L.V.

New Haven, Conn.

One of the large department stores here special itself this week during its Easter opening by the display of a large artificial latania in its window. The plant was entirely decorative, not being offered for sale, and as it was placed in close proximity to the sidewalk, the deception was a matter of public comment. The firm saved a portion of a dollar by the subtle ruse.

In direct contradiction of methods must be noted the outlay made by several other local dry-goods houses for flowers and plants during opening week. One house

used one hundred palms to render attractive to patrons its place of business, while others spent large amounts on cut flowers which were presented to their customers.

Small flowering plants are much in vogue, and naturally take precedence over cut flowers in the matter of expense.

Lilies are scarce here as everywhere. Azaleas are in plenty.

W. H. Long has moved from Church to Chapel street. Increase of trade made the change to more commodious quarters necessary, and now Mr. Long has one of the nicest flower stores in the city.

J. A. P.

SEND FOR FLORISTS PRICE LIST AND CATALOGUE

FREE UPON APPLICATION



**Gurney**

TRADE MARK

**HOT WATER HEATERS AND STEAM BOILERS**

THE STANDARD OF EXCELLENCE FOR THEIR RESPECTIVE REQUIREMENTS.

**GURNEY HEATER MFG. CO.**

74 FRANKLIN ST. BOSTON, MASS. NEW YORK CITY BRANCH, 48 CENTRE STREET, COR. ARCH.

**Water**

For Greenhouses, Gardens and Lawns in liberal quantities, every hour of the year, whether the wind blows or not.

**Improved Rider Hot Air Pump**

**Improved Ericsson Hot Air Pump**

Can be run by any ignorant boy without danger. Explosion impossible. Prices greatly reduced. In use in every part of the world.

**RIDER-ERICSSON ENGINE CO.**

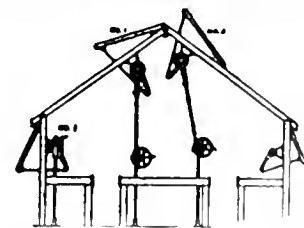
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**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability

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NOTHING Flimsy OR Complicated about it.

**E. HIPPARD, YOUNGSTOWN, OHIO.**

**GREENHOUSE MATERIAL**

Cal. Red Cedar and Louisiana Cypress.

BEST GRADES. PERFECT WORKMANSHIP.

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FIRST-CLASS GOODS and CORRECT PRICES



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**IRON RESERVOIR VASES**

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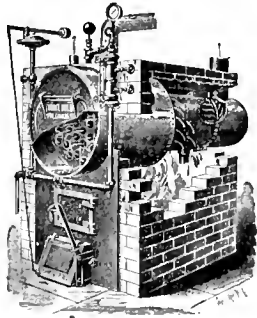


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You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to

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**VANGE BOILERS**  
ARE THE BEST



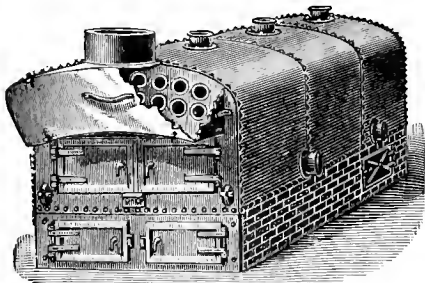
Send to-day for Catalogue and Price List.

For Heating Greenhouses, Conservatories and Dwellings

VANGE BOILER WORKS, Geneva, N. Y.

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IMPROVED

**Greenhouse \* Boiler,**  
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

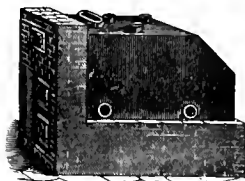
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**Boilers** OF HIGH GRADE.

For GREENHOUSES.

See our Catalogue. . . . .

Steam and Hot Water. **Giblin & Co., Utica, N. Y.**



**GREEN-HOUSE HEATING.**  
**MYERS & CO.**

1518 & 1520 S. 9th St. PHILADELPHIA.  
Send for catalogue and price list.

**NEW & SECOND-HAND MATERIAL,**

purchased from Sheriff, Receiver, and Assignee, sales at less than one-half prices. Pipe and Fittings, Hose, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Rope, Light Wrought Iron Pipe, Glass Sash, and thousands of other articles, for sale by

**CHICAGO HOUSE WRECKING CO.**

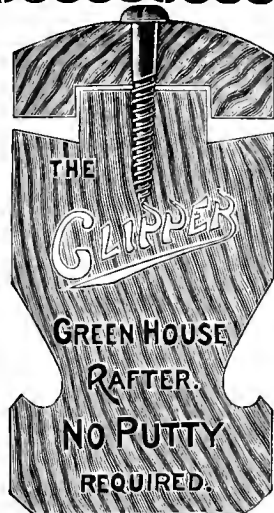
Largest Mail Order Depot for New and Second-Hand Material in the World.

**W. 35TH & IRON STS., CHICAGO.**

Write for our free illustrated catalogues.

**FOR SALE CHEAP.**

**GLASS** for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. **THE REED GLASS & PAINT CO., 456 W. Broadway, NEW YORK.**



**Butted Glass.**

This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the

**Clipper Bar.**

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

**Lockland Lumber Co.**

Write for Circulars or Estimates.

**Lockland, Ohio.**

**Wheeler-Stenzel Co.**

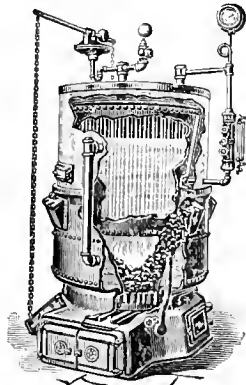
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**Greenhouse Glass**

Make your contracts for next season now. We can deliver to any part of the country and Save You Money . . . . .

72 Sudbury St., BOSTON, MASS.

—THE—  
**GORTON SIDE FEED Boiler**



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

**GORTON & LIDGERWOOD CO.**  
96 Liberty Street, NEW YORK.



**EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS**

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**QUAKER CITY MACHINE WORKS**  
RICHMOND, IND.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.

**THE A. T. STEARNS Lumber Co.,**  
Neponset, Boston, Mass.



**LOUISIANA Cypress Green House Material.**

**RED CEDAR**

Write for Estimates.

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**AM. SEED TRADE ASSOCIATION**

\$2.00,

In either stiff or flexible cover.

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**AMERICAN FLORIST CO.,**

**CHICAGO.**

**Surplus Stock**

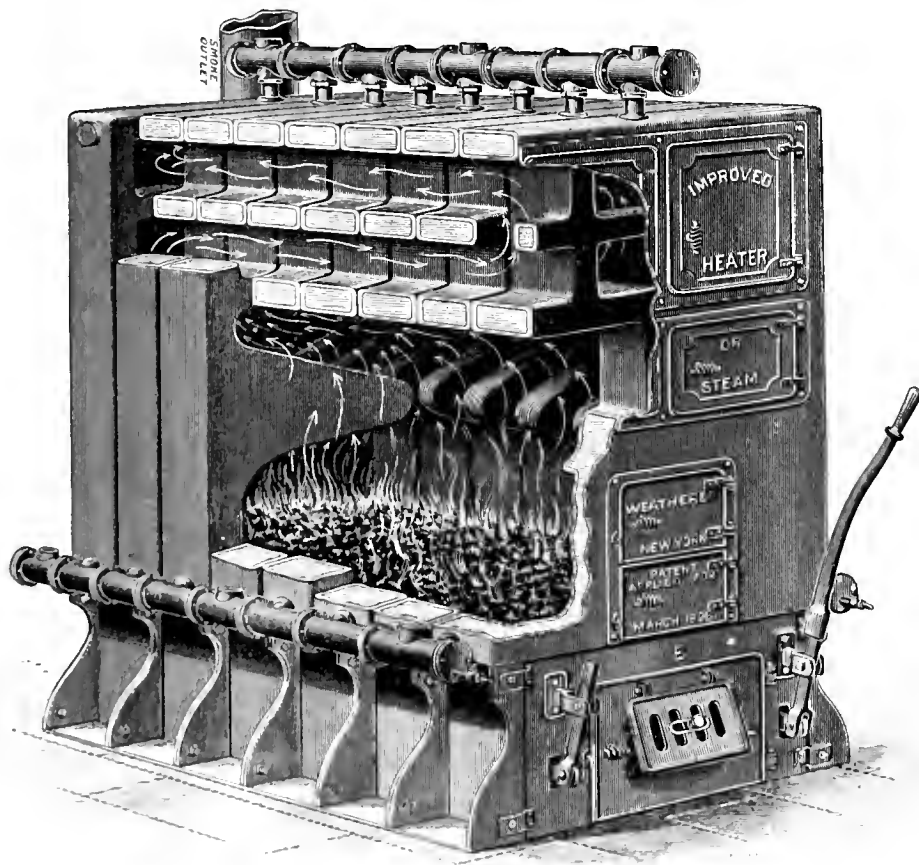
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This Size "Ad." Costs Only \$1.00.

AMERICAN FLORIST CO., CHICAGO.

# WEATHERED'S

## Improved Sectional Heater



SECTIONAL VIEW

Below will be found a few of the points claimed for this boiler:

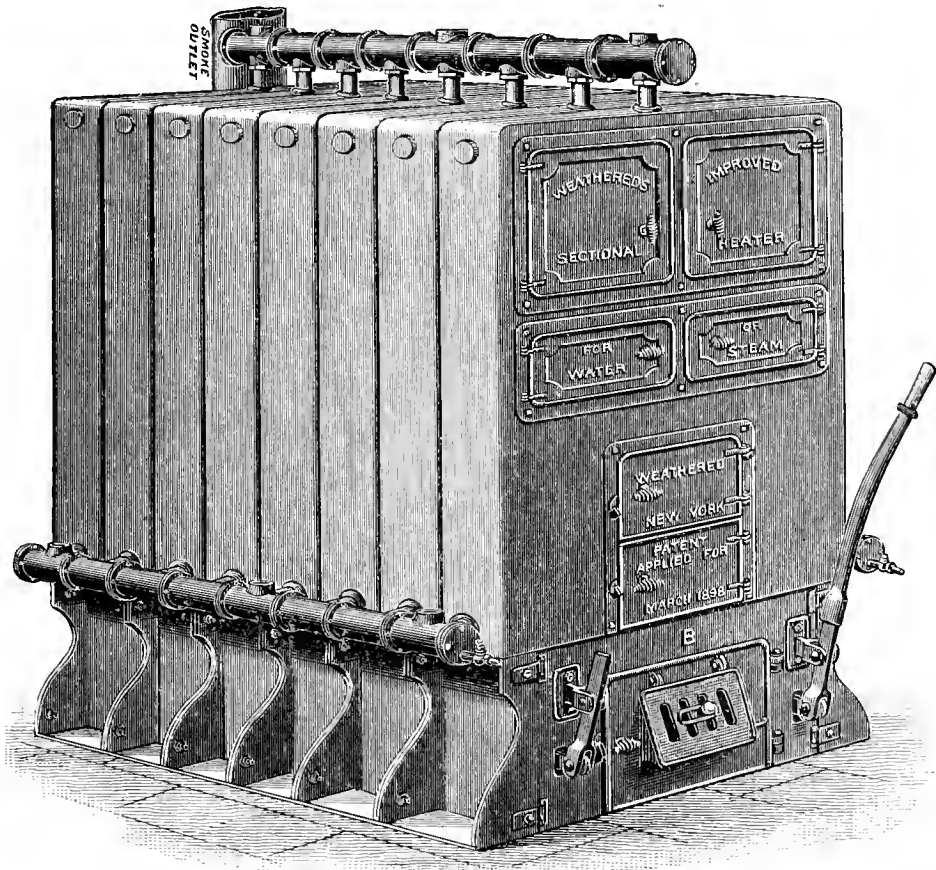
Simplicity of Construction.  
 Sectional headers to correspond to each section of boiler.  
 Sectional ash pit to correspond to each section of boiler.  
 Maximum amount of vertical circulation of water.  
 Minimum amount of friction.  
 Maximum amount of heating surface exposed to the direct action of the fire in a given space.

The heating surfaces in fire box are so arranged that the hot gases must strike every part before entering combustion chamber.

Direct or indirect draft as conditions may require.  
 Smoke box can be placed on front or back of boiler.

# For Hot Water or Steam

PATENT APPLIED FOR MARCH 1898.



OUTSIDE VIEW

Sectional boilers are now an established feature in greenhouse heating but there are many on the market that are sectional in name only and when put together a section cannot be repaired or replaced without disturbing many other sections, or disconnecting the headers.

This boiler has been designed to make the taking out and replacing a section a very simple matter. As will be seen by the cuts it is only necessary to take out the bolts in flanges—the section can then be pulled out. The sections are constructed in one piece and there are no joints within the boiler.

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**THOS. W. WEATHERED'S SON,**

141 Centre Street, NEW YORK.

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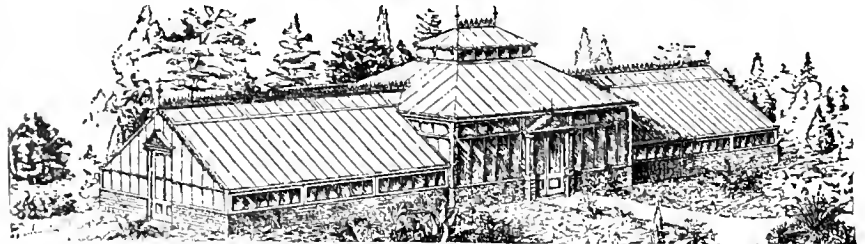
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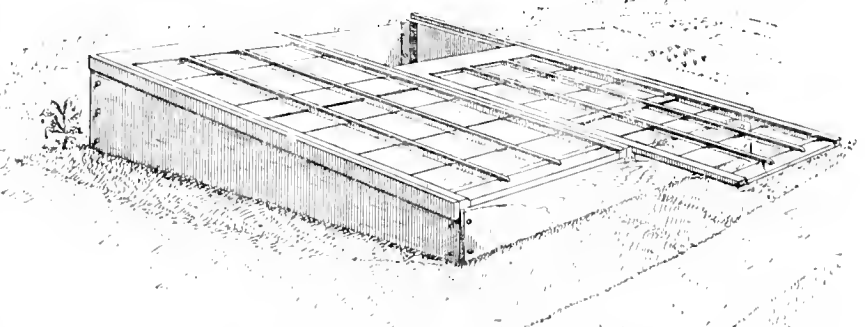
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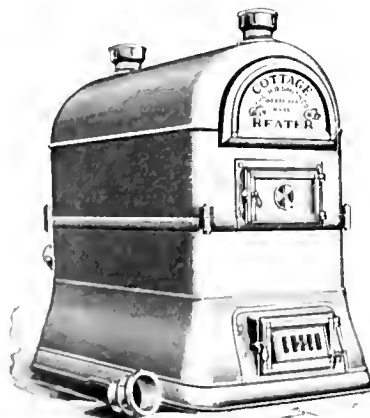
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# THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE.



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## THE AMERICAN FLORIST

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Neb., August, 1898.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
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SANDUSKY, O.—The death is announced of Henry Matern, April 10, at the family home on W. Washington street, where he conducted a general greenhouse business. Mr. Matern was a native of Weilburg, Germany. He came to this country in 1849, was over seventy years of age, and leaves besides a wife, one son and six daughters to mourn his loss.

## THE EASTER TRADE.

The reports from correspondents and florists in leading cities of the United States and Canada show an unusual uniformity with, of course, some variations in the smaller and more remote towns.

Reports vary as to the volume of trade, and many of our most careful and conservative correspondents fix the average increase at from 15% to 20%, while some report over 50%.

As to prices, the increase was not marked, but tabulated reports show approximately 5% to 10% advance, with less disposition on the part of purchasers to haggle about them.

In cut flowers carnations appeared to rule the day, reports almost invariably indicating a strong demand exceeding the supply. Next in importance to this flower follow lilies, violets and roses in the order named. Further, in a general way all good flowers sold well.

With regard to plants, lilies seemed to be called for everywhere, and most florists report that many more could have been sold. Azaleas sold well; hyacinths and palms were in good demand in many cities, and in a general way all flowering plants sold out close, with but moderate inquiry for palms, ferns and like stock.

On the whole, the Easter festival has but emphasized its importance as the florist's harvest.

We present herewith a portion of the reports:

ELMIRA, N. Y.—Easter trade, "simply splendid." Splendid stock; splendid weather; splendid sales, "nuff said."—G. P. R.

INDIANAPOLIS, IND.—An increase of 25% in total business; prices about the same except an increase in carnations; lilies sold well; hyacinths and tulips being less in demand; cut lilies sold poorly.—H. W. R.

TORONTO, CAN.—Sales nearly double those of last year. Price on best stock higher, on medium not so high. Cut flowers in good supply, also plants except lilies. Lilacs and lily plants most in demand.—J. H. D.

SAN FRANCISCO, CAL.—Serveau Bros. report an increase in volume of sales of about 16%, with prices same as last year except in the case of roses, which were a little higher. Everything was plentiful except lilies in pots and azaleas. Dutch hyacinths went like hot cakes.

BALTIMORE, MD.—E. A. Seidewitz reports sales 20% greater, with prices better than last year, especially on roses and carnations. Good supply of plants, also flowers, excepting carnations and roses. In plants hyacinths and tulips were the least salable, azaleas most in demand. In cut flowers there was least call for tulips and bulbous stock, while the demand was greatest for carnations.

ST. MATTHEWS, KY.—An increase of 20% in trade. Bulbous stock equal to demand. Scarcity of azaleas. Cut flowers short. Lilies, roses and violets most in demand.

CLEVELAND, O.—F. R. W. reports 25% increase in trade, with prices normal. Plants in good supply and cut flowers short; cut roses and carnations selling well.

NEW HAVEN, CONN.—Trade excellent, although varying but little from last season, with prices the same. Carnations were the only scarce item in cut flowers. Roses sold poorly, owing perhaps to the high prices. All plants sold well. Novelties in plants, such as lilacs, rhododendrons and Harrisii were in demand.—J. A. P.

WASHINGTON, D. C.—A. Gude & Bro. find that sales show an increase of 10%. Prices no better than last year. Plants too numerous to be handled properly. Cut flowers in every respect equal to the demand, except violets and carnations. Spireas among plants were the least salable, with lilies and pans of hyacinths and tulips most in demand. In cut flowers least call was made for jonquils; violets, carnations and lilies going well. There was a greater call than ever for cheap plants and roses.

STOUC CITY, IA.—The total sales were greater than last year, an increase of 20%. Prices about the same. The supply of plants fair. In cut flowers carnations were most in demand.—J. R. E.

LARAMIE, WYO.—Trade and prices normal. Supply equal to the demand. Cut blooms of bulbous stock, lilies and roses sold well, but our people have not learned to appreciate azaleas.—Mrs. G. A. H.

SHARON, PA.—An increase of about 40%, with retail prices much better. While the supply of plants was sufficient, more cut flowers could have been disposed of. Carnations had the call as a popular cut flower.—J. M.

NEW ORLEANS, LA.—U. L. Virgin reports an increase in sales of about 25% with prices about the same as last year. Supply of plants and cut flowers equal to the demand. Harrisii, azaleas and roses sold well. Palms and bulbous stock least in demand.

ATCHISON, KAN.—R. J. Groves reports 50% increase in trade prices as usual, with sufficient supply of both plants and cut flowers. The plants most salable were Dutch hyacinths, cinerarias, Harrisii, roses and carnations were the best selling cut flowers.

PARKERSBURG, W. VA.—Gustav Obernayer reports that Easter trade was 25% better than last year. Everything in pots was sold except hyacinths and tulips. Hydrangeas in 6 and 8-inch pots sold well. In cut flowers, carnations and roses brought good prices.

HAMILTON, CAN.—Sales about 30% greater than last season; prices the same; plants in good supply, but in cut flowers good roses and carnations were short. In plants there was a good demand for lilies, but spiraea did not sell well; good demand for all kind of cut flowers.—E. G. B.

BIRMINGHAM, ALA.—H. A. Lindsay states that sales were about the same as last year, with no increase in prices. Little or no inquiry for plants; but little bulbous stock could be sold except Easter lilies, which were short. The general stock has been better than for several years.

IOWA CITY, IA.—The sales here, report James T. Aldous & Son, are about the same as last year, as were also the prices; plants plentiful, also cut flowers except carnations, of which fully one-third more could have been sold, while the demand for violets, lilies and other bulbous stock was about equally divided.

OAKLAND, MD.—Sales greater than last year with an increase of 50%. Demand for cut flowers far in excess of supply. Greatest demand for roses, lilies and violets; least for bulbous stock. Output of flowers greatly curtailed by cold weather, the thermometer on the 6th registering 8 above zero.—H. W. & Sons.

LINCOLN, ILL.—Messrs. W. A. Gullett & Sons state that sales show small increase, less than 7% over last year, prices about the same, cut flowers plentiful. Among plants, lilies ran short and what there was of them were badly diseased. Harrisii lilies, callas, azaleas, jonquils and hyacinths were most in demand. In cut flowers, roses and carnations sold best.

FALL RIVER, MA.—Amount of sales and prices were about the same as last year. Supply of plants and cut flowers both short, azaleas and lilies sold well, while tulips and hyacinths in pots were

slow; cut daffodils and tulips were not in demand, while pink roses, violets, lily of the valley and lilacs sold well.—C. W.

TOLEDO, OHIO.—Total sales about 25% greater than last year, with prices about 20% lower; supply in all lines fully equal to the demand; in plants, lilies, cinerarias and hyacinths had the first call; among cut flowers pink carnations and violets led; cut hyacinths did not sell well; prices were badly cut, especially in plants.—E. S.

PITTSFIELD, MASS.—J. W. reports an increase of 15% over last year in total sales, with prices about the same; supply was equal to the demand, with carnations a little short and azaleas not selling well; among plants, lilies, and among cut flowers, hyacinths, spiraea, carnations and roses were in greatest demand; trade very satisfactory.

ANDERSON, IND.—Stuart & Haugh report 25% increase of trade. Fancy stock sold better. Plants in fair supply; cut flowers short. Lilies sold best, hyacinths next, spiraea moderately. Of cut flowers, carnations, roses and bulbous flowers were in demand in the order mentioned. The demand for buttonhole bouquets raged high; all classes were buyers.

HARTFORD, CONN.—D. A. S. reports Easter trade about one-third greater than last year, with prices about the same, except that carnations were higher; everything was in full supply except violets and carnations; azaleas and lilies were most in demand with bulb stock slow; the call was for carnations, Harrisii and violets; results entirely satisfactory.

KOKOMO, IND.—Total sales show about 10% increase. Prices for retail stock about the same as last season, with an increase in wholesale prices. Flowering plants most in demand were cyclamens and primulas, also palms. In cut flowers roses, carnations and lilies were most salable. A hint for the future, grow better grades and get higher prices.—W. C.

ST. LOUIS, MO.—The St. Louis Cut Flower Co. reports sales as 45% greater, with prices about the same as last year. The supply of plants, except lilies, equal to demand. In cut flowers the supply of roses was short. Carnations plentiful. Too much bulbous stock. With plants everything blooming sold nicely. In cut flowers bulbous stock was unsalable, but roses, carnations and lilies sold well.

PADUCAH, KY.—A decrease of about 10% with total sales less than last year. The supply of plants and cut flowers was about equal to the demand. An increase in the sale of flowering plants. In cut flowers hyacinths and lilies were least called for, roses and carnations being most in demand. A better quality of stock was grown and better prices obtained.—C. L. B. & Co.

CINCINNATI, O.—Total sales fairly correspond in volume of business done, but with the 25% decrease in money value, prices being rather lower and plants in very good supply. Cut flowers equal to the demand, except carnations. Excellent demand for roses, carnations and lilies. Good demand was also noted for azaleas as well as for ferns and small palms for gardeners.—H. S.

OTTAWA, ONT.—Prices about the same, but total sales about 25% greater than last year. Lilies in pots were short, other

plants in full supply; roses, carnations, violets and good lilies were short; among plants, azaleas, lilies, spiraea, and lily of the valley were most popular; bulb stock, while not in such great demand, sold well; roses, carnations and violets were in the lead; the day was ideal and trade entirely satisfactory.—GRAHAM BROS.

PORTLAND, ORE.—An increase of 20% in sales, prices being better than those of last year. Supply of cut flowers was equal to the demand, but plants were short. There was little demand for bulbous plants except Harrisii lilies, preference running more for ferns and palms. Sales of cut roses lighter, carnations being the favorites. More general demand for good stock, with no opposition to paying better prices.

PROVIDENCE, R. I.—Sales show an increase of about 50% over last year; prices ruling higher on carnations and lilies; supply of plants in most cases equal to the demand, and the same held good with regard to cut flowers, carnations excepted. Azaleas and lilies, among plants, were most in demand, and carnations in cut flowers took the lead. Both plant and cut flower stock was better than last year except in the case of Harrisii lilies.—W. E. C.

MILWAUKEE, WIS.—Prices and total sales about the same as last year; with the exception of carnations and good Beauties the supply of plants and cut flowers was equal to the demand; lilies and flowering shrubs sold readily; roses, carnations and violets sold best, although bulb stock, on account of low prices, went freely. Orders were smaller but more numerous than heretofore, and cash sales formed a much larger part of the transactions.—WHITNALL FLORAL CO.

BUTTE, MONT.—Sales 50% greater, though prices remained the same as last year; all plants in good supply except Harrisii lilies. The supply of cut flowers ran short; many shipments were received from Chicago and Denver. Among plants there was most demand for Dutch hyacinths, cinerarias, Harrisii lilies and azaleas. In cut flowers lily of the valley, Roman hyacinths, Harrisii lilies, violets and carnations took the lead; demand for pot plants showed an increase of 100% over that of last season.—L. B. D.

GRAND RAPIDS, MICH.—Henry Smith writes: We note an increase in sales of about 25% with retail prices about the same. The supply of plants and cut flowers were about equal to the demand. The class of plants most salable were Harrisii, azaleas, hyacinths, cinerarias, roses and geranias. Those least in demand were tulips and bulbous stock. In cut flowers carnations, Harrisii, roses, violets and lily of the valley were most in demand. The sale of flowering plants was larger in proportion than that of cut flowers.

ST. JOHNS, N. B.—Sales were slightly in excess of last year, with prices but little lower; supply of plants ample, and in some cases in excess of the demand; roses plentiful and first class; carnations very short; pots of bulb stock sold well; spiraea slow; other plants in fair demand. Narcissi, spiraea and other miscellaneous flowers were in light demand; standard sorts sold well. Some of our enterprising citizens ordered a supply of Harrisii lilies direct from Bermuda, but unfortunately the steamer did not arrive until the 12th; now Harrisii lilies can be gotten very cheap.—H. S. C.

### The Florist and the Flower Show.

BY GEORGE C. WATSON.

[Read before the New York Florists' Club, April 17, 1898.]

It gives me much pleasure to appear before the members of the New York Florists' Club this evening and tell them what I think of the relations that should exist between the florist and the flower show. I believe I can interest you for a few minutes on that subject without lugging in any of our Philadelphia wheezes about New York being such a sleepy Rip Van Winkle old town. Our friend Lonsdale and some more of his kidney tell me they always like to come to New York when they want a good rest, you know, but I guess that is just their airy way of getting back at you fellows for some sweet things you have got off in days gone by about Philadelphia—the greatest city in the country—which I could easily prove to your satisfaction with facts and figures if necessary, only I know that you know it in your hearts.

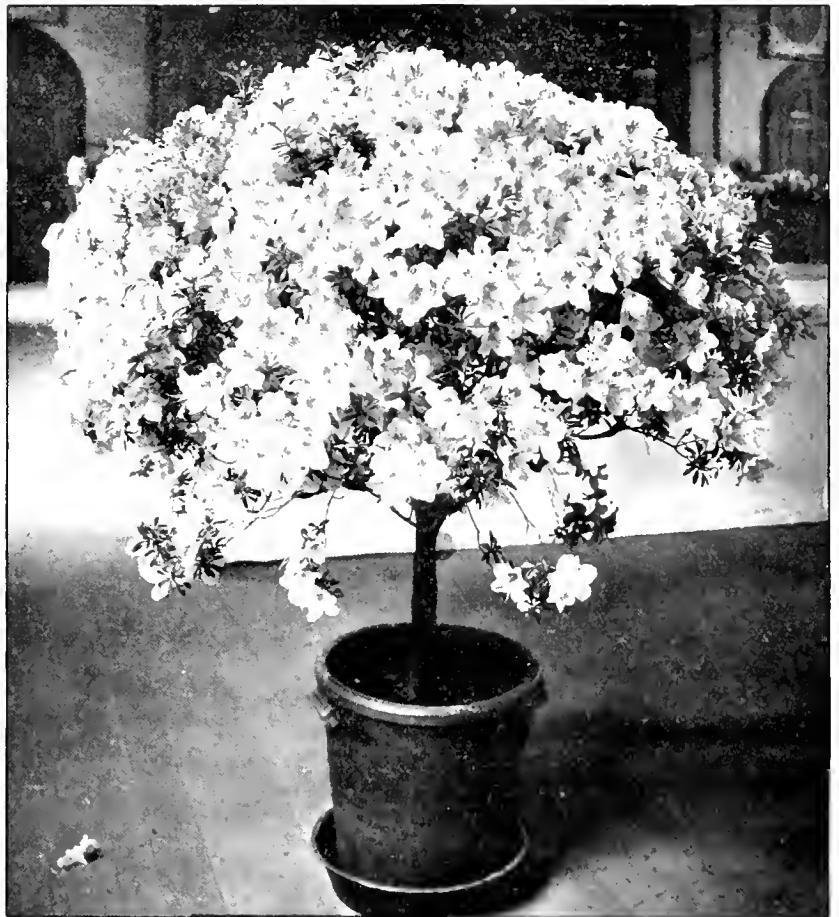
One thing I will mention, however, and that is that Philadelphia has the finest home of horticulture of any city in this country if not in the world. Artistically the building is a dream of beauty, both externally and internally, and it represents an investment of over half a million dollars. That is something for a patriotic New Yorker to ponder over and is respectfully submitted to the fourth estate. It will be useful stuck up on the editorial desk when the temptation to be witty is strong. But that splendid monument to horticulture, completed but a few years since, took its birth away back many generations ago among the ardent commercial and amateur florists for which Philadelphia has always been noted. These men of old were keen exhibitors. At first they had no home to invite the public to, but had to hire a tent or hall; then they got a modest structure, then a more ambitious, and finally the present palatial edifice.

The question naturally arises, Does the florist of to-day reap any benefit from the exhibitions of his predecessor? I answer unhesitatingly, of course he does. Would the present generation be educated in horticulture to its present extent without the stepping stones laid for them by past generations? The commercial florist of to-day in Philadelphia and Boston and New York and other cities is being benefited by the seeds that were sown long ago. Not that his predecessors thought anything much about posterity. What they wanted and what he wants is the applause and the dollars of the living. The flower show was recognized then as a powerful factor in educating the people in this most beautiful art of gardening, and with education came business. It's the same to-day. Grow things well and get the people to come and see them. The business will grow in its turn, and thrive amazingly in this sunshine of publicity. Look at the chrysanthemum: How many were sold previous to the time you commenced to grow and show them well a dozen years ago, and now look at the myriads of them that are being distributed every year. Look at the carnation, the rose, the lily, the azalea and many other flowers. Exhibitions have done much for all of them and trade has been greatly stimulated and expanded.

All this seems to go without saying, but for all that, it is surprising to find many commercial florists of the present day who are lukewarm on the subject of exhibitions and who can only be induced to come forward and do their share when hired—that is either with hard cash in

prize money or pieces of plate. It seems to me the feeling ought to be just the other way about; a commercial florist ought to be so eager to advertise himself by showing his products to an admiring public that he would willingly pay hand-

meet old customers and make new ones. It is advertising of the most effective kind. Business begets business, and to get business you must make a noise. There is no better way of making yourself felt than through the public exhibition.



SPECIMEN AZALEA, CARL EUKE, EXHIBITED AT BOSTON BY ED. BUTLER, WELLESLEY, MASS.

somely for the space occupied and consider it a favor and a privilege to be allowed the opportunity. Another attitude of a great many commercial florists at the present time is, in my poor judgment, wrong. That is to say because the admissions do not pay all expenses including fat prize money, that the show is a failure. There is surely another criterion to judge a success by than the box office. A show may be very successful in every way and the public may crowd to see it and yet the expense of getting it up may be so great that the admissions do not cover it. But why should that be cause for despair and much talk about the show having been a failure and "flower shows don't pay anyway," and all that sort of thing.

I think that attitude all bosh. I believe flower shows pay if not one cent is taken in at the box office. And the better they are the better they pay. They pay for the time being and for the future. There is no measuring when their effect stops. They are like a stone dropped in the water. The circles keep on widening and widening and the whole trade reaps the benefit. I believe every florists' club ought to give frequent flower shows, three or four times a year at least. Don't say "I am too busy." It is a part of your business. It gives you a chance to

Experience teaches this, history proves it and common sense clutches it.

If the commercial florists in a community find the presence of a horticultural society in their midst let them rejoice. Instead of making a machine to educate their neighbors at great expense here is one ready to their hands and already doing the work. It does not take a house to fall on a man to make him see that and the potentiality of such an institution for the furtherance of the business interests of the florists' trade. A florists' club can organize a flower show, can run it successfully and achieve great and lasting good, but the individual members can do more with less effort by assisting their horticultural society. The horticultural society is closer to the general public who do or may garden for pleasure, being in fact a part of it, and is therefore more powerful because no one can say "Oh, they have goods to sell." I want to dwell on that point. I think it important. Many will say, "A florists' club can run a flower show just as well, nay, better than a horticultural society." As to that, they may give a better display but they will not have the same influence with the public. Take the American Carnation Society for instance. The devilish maliciousness of the individual who nicknamed it "The Rooted Cutting Society," is an

example of what poison can be injected by a lie that is not all lie and therefore much more deadly than a downright untruth.

On the whole I think the florist can get the most good out of the flower show if he investigates it through the medium of an amateur organization, but I do not wish to minimize the power of a frank and candid trade show for advertising purposes. I hope for a great awakening to the possibilities of expanding the flower business in this country by the concentration of attention on the matter of extending the market, increasing the demand. The selling of our product is considerable of a science, as many of our bright growers have found to their sorrow. Many have made the mistake of thinking that anything when well done will sell itself. Don't you believe it. You must first have your public educated up to the point of knowing a good thing when it sees it.

And, gentlemen, in conclusion, that's the nigger in the woodpile. There ought to be a great deal more attention paid to preparing the ground of the public mind sowing the seed thereon, cultivating, weeding, training, watering it day in and day out, keeping all the time at it and never letting up. If this thought could be thoroughly worked into the composition of the little army of 15,000 or 20,000 commercial florists in the United States, do you doubt for a moment the immense expansion of the business and the honor, glory and profit to all concerned. I don't, for one, and that I take it is the interest the florist has in the flower show, and is the reason why I think all florists should support the same much more warmly than many of them now do. Exhibitions are good things. Ask for them. See that you get them. And in any event get rid of that insane idea that it is the number of dollars taken at the box office that makes a show successful.

#### Primula Vulgaris.

The genus to which the above belongs is rather prolific in species, from seventy to eighty being chronicled, a large number of them being very elegant and choice subjects for either the hardy herbaceous border or the rock-garden. They are also, as a rule very submissive to forcing, and therefore good subjects for the cool conservatory, the most popular being *Primula Sinensis* (Chinese primrose), *P. obconica*, *P. variabilis* (or *polyanthus*), *P. officinalis* (cowslip), *P. elatior* (oxlip), *P. auricula*, *P. cortusoides*, *P. Japonica*, and the one that heads this note, *P. vulgaris*, all of which are well adapted for pot culture, and will do equally well in cold frames, excepting the Chinese primrose, which must of course be treated as a greenhouse plant, *P. obconica* being also partial to greenhouse protection.

The chief distinctive feature that characterizes *vulgaris* from its immediate relatives *officinalis* and *elatior*, are that in the former the peduncle or primary flower stem common to the latter are suppressed. To compensate for this short coming the pedicels or secondary flower stems are much longer than those of the bunch-flower *polyanthus*, enabling the flowers to appear well above the foliage of the plant.

*Primula vulgaris* seeds should be sown in early April in a cool greenhouse in order to get large-flowering plants by the middle of the following winter. Pricked off in boxes, or any other convenient receptacle in which they are to remain until well established, transferred to the open garden from the said receptacle in

well-enriched soil, and in partial shade if procurable, they will make greater progress than if transferred to pots. They ought to be lifted and potted in the latter part of October, if intended for conservatory work, otherwise lifted and planted in cold frames for spring work. As they



PRIMULA VULGARIS.

require but a few weeks to re-establish themselves in the pots, they are available for flowering any time thereafter, though the greater success is attained by deferring forcing until the near approach of spring, when their natural proclivities may be tickled by the florist with the assurance of success. They are gross feeders and require lots of water. K. F.

#### Rose Notes.

Those of us who are expecting to plant a house or a number of houses specially for summer bloom will soon have to bestir ourselves; it is remarkable how swiftly the weeks pass, and the months too, and if we hope to cut good blooms with fairly long stems by July 1 it will not do to be setting out the plants around June 1; April 15 or close to that date is the proper time in my opinion to plant all summer houses. A house that is not as light, as well constructed or as well heated as is usually recommended for winter work will answer very well for summer roses, though the better the house the finer the product every time, other things being equal. To give good satisfaction all through the season, which includes the months from April to December, a house should have ample ventilation, ridge and side preferable, a tight roof and sufficient piping and boiler capacity to give enough heat all through those months, not of course anticipating any extremely cold weather.

I contend that fine blooms can hardly be expected if the plants are grown in the close, stilling air found in many rose houses during the hot months. Instead of a rose house being a "hot-house," it may be rendered actually cooler than outdoors by thorough ventilation. I know that many very good growers object to side ventilation for roses, and there are those who after having gone to the expense of putting it in, positively refuse to have the sash opened. Side ventilation causes a draft, and that means mildew, so to avoid the latter it is necessary to exclude the air at this point. All this does not agree with my experience with side ventilators. A careless man will get drafts, and therefore mildew, without them more likely than a careful man would who should use them

properly. If the roof is leaky, the cold fall rains will saturate the soil, and black spot will surely follow. It is not a very difficult job to make a leaky roof tight; white lead, whitening and linseed oil mixed properly and applied with a putty bulb will serve the purpose well. If there are no heating pipes in the house the season would be so short that the undertaking could hardly be profitable, and when the plants are looking and blooming the best it is not nice to have them suddenly destroyed. If it were possible I should select a house having well-drained solid beds in preference to one with benches; they will require less water, the soil is not so apt to become superheated and the roots can get down to where it is always cool and moist; the result is stronger growth and heavier flowers, with a minimum of care and labor.

Kaiserin Augusta Victoria, as her name implies, is unquestionably queen among summer roses; when well grown (and it is easy to handle) there is no other variety, as seen from the florist's standpoint, that has so many points of excellence—fine foliage, splendid stiff, long stem, finely formed and large-sized blooms, and with it all a delightful fragrance. Meteor has no rival as a bright red, and is almost always satisfactory. American Beauty is as much appreciated by the flower buying public, and is probably as profitable during the summer as in the winter months. Perle usually grows well, blooms profusely and opens its flowers perfectly in summer, and where there is any demand for yellow it is certainly the rose par excellence. The ideal pink rose for this purpose does not seem to have materialized as yet. La France is sometimes good, often no good and on the whole cannot be considered reliable. Testout is satisfactory in color, but has little substance and is not a very good keeper; but it is after all perhaps the best that we have. I believe that with solid beds and the very best attention, including a slight shading after May 15, the Bridesmaid will hold her own with the rest of her color, and probably surpass them.

There is not a fortune in summer roses for anyone; the demand is limited, and if every grower in the vicinity of our large cities should conclude to plant a few houses the result would be disastrous to all concerned. The man who has a retail trade or who furnishes flowers direct to the retailer, especially in the smaller towns, and from whom a small shipment is expected every day in the year, is the one above all others who should have a few roses, especially for the summer trade. The plants that have bloomed all through the winter and spring are almost invariably worn out by June 15, and the flowers cut from them after that date are small, mildewed, off-colored, measly things, a disgrace to the grower, a vexation to the dealer and a disappointment to the purchaser.

It is a race these days trying to keep abreast with the work; we no sooner get round the young plants in pots, shifting, cleaning, etc., than we are compelled to start again. The old plants in the benches demand and should have as much attention as at any time during the season; the side growths seem to spring forth as by magic; the shoots will monopolize paths and every part of the house if not tied up frequently; red spider will flourish and spread his influence amazingly in the drier air and more congenial surroundings, and before we know it a house of roses may be practically ruined. It is not always the amount of syringing done or the pressure of water

available that counts, but rather the manner in which it is done; one thorough syringing is better, so far as removing spider is concerned, than half a dozen indifferent ones. It is hard, hot and wet work, and a lazy man is very liable to slip it.

In fighting mildew remember the adage, "An ounce of prevention is worth a pound of cure"; try to keep the foliage large, hard and shining by liberal treatment and plenty of air, then mildew will not make much trouble; exclude the air to avoid mildew and soft foliage is the result, and mildew after all. Keep up the liquid manure regularly once a week if possible, changing the ingredients each time. If a mulch has not yet been given, it should be put on at once. ROBT. SIMPSON.

#### Bulb Growing in the State of Washington.

The states of Washington and Oregon must not be overlooked by those interested in the production of American grown bulbs. The cool, even temperature of this region combines with suitable soil to provide conditions apparently very favorable for the growth of flowering bulbs. This seems to be not only true of gladioli which have been quite extensively tried, but from very reliable information, which the FLORIST has recently received, it would appear that San Juan county, Washington, furnishes ideal soil and climate for nearly all of those kinds commonly known as Dutch bulbs.

The picture accompanying this illustrates the culture of crocus and at the same times portrays the natural formation of the land as well as its original timber growth. There is undoubtedly an opportunity in this part of the west for experts in bulb growing to establish a permanent business.

#### Carnations.

Planting out time is here, and as this method of culture seems to give the best results, it is an important factor in carnation culture. Give them the best piece of ground you have on the place, for right here is where you can overcome the defects of poor stock much better than anywhere else during the life of the plant. As to manuring, that is a matter for every one to judge for themselves. Some soils will produce plants plenty large enough with very little manure added to them; others will require a quantity of it. The object of open air culture is to get a plant of good size, and yet not too large, to handle easily in the fall. This thing of a small plant giving the best results is a mistaken idea; if you have plenty of wood produced by outdoor growth you will have plenty of flowers, and with proper indoor culture they will be just as fine, if not finer, than those from small plants that produce only a few flowers during the winter, and the bulk of them along at this time of the year.

Some growers use phosphates or bone to advantage, but for a beginner who is not familiar with his soil and the use of prepared fertilizers he had better fight shy of them. There is nothing quite so good as well rotted stable manure for outdoor culture, and especially where you can rotate your crops. It is not advisable to use the same plot of ground year after year for your carnations if you have enough of a place to rotate with something else. If, however, you are compelled to use the same plot year after year you will have to use some discretion in manuring it, so that the soil does not become too rich, as a superabundance of

vegetable matter in the soil is quite as detrimental to good results as a lack of it. A very good plan to follow where you use the same plot is to manure heavily one year, use a little lime the following year, and then manure again, or occasionally drop both manure and lime for a year and use a good phosphate or bone.

Where you have plenty of ground the following is a good plan to adopt: Manure pretty heavily one year for the carnations, the following year use either lime or bone, whichever the soil needs most, and plant carnations again, then after they are planted in the houses sow the field to wheat, plow this down in the spring after it has made a good growth and sow the ground to either red clover or some quick-growing grass and plow this down either in the fall or the following spring, and your plot is ready for carnations again, with a light coat of stable manure. The following year fertilize with lime, and then wheat and grass again.

To properly prepare the soil it should be plowed at least ten inches deep, providing the subsoil will allow that depth; otherwise plow as deep as the subsoil, for it is not policy to turn it up for carnations; leave that for some other

the weather, excepting of course when the soil is too wet.

No matter if the plants are in flats or in pots, water them heavily before taking them up and then again after they are taken up, the idea being to have the plant well soaked with water when it reaches the field, so that it will start without wilting. Do not take them to the field in the boxes or pots; have them all ready for dropping before they leave the houses and then let one man drop for two planters, so that the roots do not lay exposed to the sun and air any length of time before planting.

Planting should not be looked upon as a matter of how many plants one man can plant in a day, neither should it be a matter of a week to plant up five or six thousand plants. Where there are four men on the place a good plan is to prepare, say ten rows, then let one man drop and two follow planting, and the fourth follow and carefully tramp the soil around the plant; this last man can be dispensed with if the soil is wet or there is prospect of rain within a day or two. They should be planted if from pots just a little lower than the level of the pot, and if from flats just a little deeper than they had



A CROCUS CROP AT ORCAS, SAN JUAN CO., WASHINGTON, MARCH 4, 1898.

stronger-growing crop. Harrow it well and as deep as possible, and then throw up rows as far apart as the amount of room you have will allow; if you have plenty of room, two feet is a nice distance to have them apart. If you are crowded, fifteen inches is as close as they should be. The first distance will allow of working them with a horse and shovel harrow, and the latter with a hand harrow. The rows should be thrown up at least four inches above the level, so that when they are raked off for planting they will be about two inches above the level, which makes a good height, as in a wet season it will throw off the surplus water between the rows and in a dry one they are not perched up so high that they will suffer much from the drouth.

Planting out will of course depend on the weather. April 15 to May 1 is a good time in this latitude. Where there is not over five to ten thousand it is best to wait until there is promise of a rain and then try and have them all out by the time the rain comes. Where the quantity to be planted will not allow of this it is better to plant right ahead regardless of

the weather, unless they are leaved down to the soil, in which case they should not be planted any deeper than they were in the pots or flats. If the soil is dry take the trowel and clip the dry soil off the row, as no dry soil should be placed near the roots of the transplanted plant. If it is very dry, take a hoe and clip out a hole where you want to plant and fill this with water, having the planter follow so closely that the plants are in before the water is all soaked out of the hole. This latter is a bit expensive, but will pay.

Some of these things mentioned may seem minor matters, but they are all important factors in the life of the plant and in the profit you derive from them.

ALBERT M. HERR.

FREDERIC W. TAYLOR, the well known horticulturist and present superintendent of agriculture and horticulture at the Trans-Mississippi and International Exposition at Omaha, was married at Chicago, Tuesday, April 12, to Miss Marion Treat, of the musical department of the Nebraska State University at Lincoln Neb.

### Exacum Affine.

This lovely gentianwort is one of a genus of twenty species, and a native of Socotra; though not so gorgeous as its near relative *Exacum macranthum*, which requires a stove temperature and has much larger indigo-blue flowers, yet the all-round charms and characteristics of the former will, in my opinion, out-balance the gorgeousness of the other. One of the good points about *E. affine* is its natural compact habit, delicious fragrance, profuse flowering disposition, continuing in its floral garb for quite a length of time.

The color of the flowers varies according to treatment; if kept in bright sunny quarters they assume a bluish lilac color, in the shade, blue to deep blue. It is considered by some authorities an annual, but more properly it is a biennial, though I have kept it in the pink of health for nearly three years.

Seeds sown in August will produce plants, properly handled, suitable for seven-inch pots the next succeeding August. Seeds sown in March in a warm greenhouse, or greenhouse temperature, will produce plants suitable for five-inch pots. The soil I find best adapted for its culture is good fibrous loam and leaf mould, the latter predominating with clean sharp sand in addition thereto in quantity.

The seeds are so small, so few and so far between in a seedsman's package of this plant, that the aid of a Lick observatory telescope is necessary to locate them, hence the extreme care that is required to deposit them on their seed bed, which ought to be smooth, and the materials thereof finely sifted. It will propagate, however, as readily as the proverbial weed. Greenhouse temperature is the most suitable for the subject of this note, which, of course, means any way from 55 to 60 Fah.

The plant must be kept in a cool, but not draughty greenhouse or frame in the summer time, and shaded from the fierce sunlight; it requires lots of water at all times, except in dull cloudy weather, or in a less congenial temperature than 55 degrees. K. F.

### New York.

BLOOMING PLANTS WERE THE FAVORITES FOR EASTER TRADE.—VIOLETS TAKE PRECEDENCE OVER ROSES IN POPULAR ESTEEM.—GEORGE C. WATSON AT THE FLORISTS' CLUB.—MR. BUTTERBACH DISPLAYS HIS PRIZE CUT.—PERSONAL.

The disagreeable weather that for a week or more had kept in suspense all those interested in the buying, selling or wearing of Easter flowers or Easter bonnets, vanished in due season and was followed by three rare spring days. No more beautiful day than Friday or Saturday could have been desired and Sunday practically followed suit, for the predicted rain storm did not arrive until 6 p. m.

The plant trade may be safely recorded up to expectations. It had things its own way and another long step was taken in the evolution that has been going on for years, and promises to soon elevate the cut flower as a factor in Easter results. The retail dealers were evidently very well content that it should be so and most of them devoted their energies mainly to this branch of their business, relegating the cut flower department to an obscurity in which their customers seemed equally willing it should remain for the time being. Even the



EXACUM AFFINE.

Greeks, quick to note any tendencies offering an opening for their enterprise, took a hand in it and lines and groups of lilies, azaleas, hydrangeas and daisies marked the location of their stands. And the quality of these street vendors' plants could not be called inferior; much of the stock was of fair size and showed evidence of judicious selection and it was accessible to the street buyers at figures considerably lower than quoted in the better class of stores, each customer, however, having to shoulder his own purchase and get it home as best he could, without the luxury of a plate glass wagon and liveried attendants to do it for him. A number of the cut flower wholesalers possibly feeling their way to a more active future participation in this particular department made a modest attempt to handle a few plants and one went so far as to secure a large vacant store, fill it with plants and give his attention to it in preference to his cut flower business, with gratifying results. These movements on the part of the wholesalers did not meet the approval of their retail friends but as the retailers were doing little or nothing towards consuming the heavy stock of cut flowers on the wholesalers' hands the obligation on the latter to refrain from a chance to make an Easter dollar could not be regarded as very strong.

Lilies and azaleas were the plants most in evidence. Lilies went rapidly and Saturday morning found the stock well depleted, short, stocky longiflorums, one two or three in a pot, having the preference. Azaleas were sold in enormous quantities but the supply seemed almost inexhaustible and there were some left at the end in all establishments, most of these being, however, inferior goods. Rhododendrons were not offered in as large numbers as last year, neither were geranias. There was a fine supply of ericas, both pink and white and they sold well. *Boronia heterophylla* although seen in perfection did not seem to create any special enthusiasm, daisies, astilbe in two species, and accoens had a fair demand and lilacs, hydrangeas and bulbous stock whether in pots or flats sold

poorly. A prime favorite was Crimson Rambler rose; in fact, all good roses in pots were snapped up greedily. On violets and English primroses and even lily of the valley, in fancy hampers and flat trays there was a tremendous rush. One retailer remarked that if he had to go through with it again he would prepare several hundred more of these attractive arrangements, with a certainty of a ready sale. These baskets were made of willow in various natural or soft green tints sometimes decorated with straw braid trimming and in all cases were provided with tin receptacles for the plants. One difficulty with the popular violet arrangements is the necessity that they be filled only when wanted and with positively fresh plants as violets kept in the store twenty-four hours acquire a very tired fragrance. In one leading establishment willow hampers in various sizes were made a specialty. The larger ones were filled with ericas, azaleas, cinerarias or other bright flowering plants crowded closely down so as to show a mass of color under the half-opened lid which was decorated with ribbon of appropriate tint. Simplicity of arrangement prevailed and very few promiscuously mixed groups were seen. The use of ribbons, generally, as a finish to plant arrangements seemed to be popular but crepe paper was not used as much as heretofore, the better class of stores showing a disposition to discontinue it. As to novelties there were not many, a few cape jasmines and some ericas in beautiful, but as yet unfamiliar varieties being the only things noted.

The cut flower trade, from the standpoint of the wholesaler and the grower, cannot be recorded as a brilliant success. The disposition of the retailers to avoid stocking up and to leave to the wholesalers the burden of carrying the goods until they should be needed was more pronounced than ever before. The only flower on which any scare developed was the carnation, and strange to relate, it was the Greek who got the bad end of the bargain. Such carnations as came in previous to Saturday were held at very

high prices. The stores refused to be stampeded, but the Greeks were nicely caught and Sunday morning saw the carnations still on their hands, the public having dropped the carnation with a "dull thud." The receipts of roses were enormous in the aggregate. Many of those that came in on Thursday and Friday showed unmistakable traces of familiarity with the storage cellars. Saturday's receipts would probably equal in quantity the entire receipts of the balance of the week. Express wagons were unloading on Twelfth-eighth street until late into Saturday evening and the contents of these late arrivals showed that the bushes had been depleted to the last available bud. Sunday morning saw more shipments on top of the accumulated stock and when the tired wholesalers finally closed their doors on Sunday evening, notwithstanding the quantities they had been able to unload, the ice boxes were still well filled. The experience on big roses was especially discouraging. American Beauty in all grades was moved with difficulty owing partly to the heavy receipts of Jacobs of good quality which were sold freely at moderate figures. Surplus mixed teas had to be knocked down at very low prices in quantity to close out, and it being Sunday, the street Greeks, who must be depended upon always at the tail end of the game, did dot dare to make any move.

Violets, while not provided in as large quantities as promised, came in freely and sold freely, the public fancy and the public recognition of the moderate prices quoted serving to make this item in the business pleasant and satisfactory in every way, and the quality averaged excellent for the season. Bulbous stock was a bugbear. Tulips were unsalable and many of the Easter receipts are still sojourning in the wholesalers' cellars. Lily of the valley rallied on Saturday evening, but as an effort had been made to keep the surplus down by low offers, the depleted stock left little chance to realize on the advance. Daffodils made a fairly good showing considering the spring's previous record. Smilax was said to be scarce; so it was or seemed to be up to Friday. Nobody would accuse it of being scarce since then. It came in crates and barrels and baskets in hopeless mountains and asparagus and adiantums performed a similar caper. Much of it is still looking for a customer. As to lilies the story is that there was a large percentage of *Harrisii* blooms of exceedingly inferior quality and these could not be expected to realize much, but good tough petaled longiflorums sold well, although not at outside prices as quoted in advance, and with the exception of the late Saturday and Sunday shipments which were not in time to enjoy any part of the special demand.

The April meeting of the New York Florists' Club was not as fully attended as its predecessors of the present year, but the number present was all that could be expected after the Easter ordeal and it is safe to say, much larger than it would have been were it not for the announcement that the ever sprightly George C. Watson from Philadelphia was to appear on the platform. Mr. Watson's address will be found in another column but his personality is not transferable to cold type, therefore those who missed the pleasure of listening to him are decidedly the losers. A letter from the New York Gardeners' Society asking if the club would participate in a fall show was referred to the exhibition committee and incidentally furnished food for argument

on the subject of Mr. Watson's paper, viz., flower exhibitions. How to get the public to support or even to attend flower shows, how to advertise these affairs economically yet effectively, how to subsidize the local newspaper talent, how to get exhibitors to participate without the incentive of large money premiums and many other essentials of success were discussed from the standpoint of the various interests represented in the meeting. The lack of a suitable hall of moderate size, the indifference of the great public of a city so wholly cosmopolitan as New York is and the unproductiveness of the cut flower growers' industry in this vicinity for the past three years were among the many causes advanced for the unfavorable showing in the exhibition line made by the great metropolis. Mr. Watson added to the impressiveness of the occasion by a pertinent allusion to New York's slowness as compared with Philadelphia in the matter of street cars as per his experience in coming from the R. R. station to the meeting in an old-fashioned slow horse car. The exhibits on the center table were few. A handsome begonia of the Rex type from W. A. Manda and a seedling violet, pale colored from Charles Carroll were specially noted.

At a meeting of the New York Gardeners' Society on Saturday evening, Mr. N. Butterbach appeared with the silver cup presented by the Monmouth Co. (N. J.) Horticultural Society at the Waldorf-Astoria exhibition last fall and which was won by Charles Knight for the best arranged group of decorative plants. The cup is a very artistic production.

Geo. T. N. Cottam has been appointed by Mayor Van Wyck a member of the committee to solicit contributions toward building a national monument to the victims of the Maine outrage, to represent the nurserymen.

Mrs. Jacob Bebus died on Friday, April 8.

J. L. Schiller is scheduled to be married on June 1.

#### Chrysanthemum Notes.

Chrysanthemums to be grown for specimen plants are now ready for a shift into 6-inch pots. We begin with this potting to use a richer soil. In addition to the ordinary compost used for potting a variety of plants, we add a dusting of wood ashes and a little pulverized sheep manure; we are careful not to use a large proportion; we know what it is to make mistakes. Free drainage is essential. Charcoal is recommended to be used in the drainage of such varieties as are liable to burn. This probably might be deferred until the final shift, though charcoal is good at all times, especially when we have a heavy soil to handle. Chrysanthemums root freely in coal ashes, as we may notice when they are set on a bench of this material. Ashes used as drainage do quite as well as broken crocks. We pot firmly when the soil is light, and loosely when it is heavy.

In spite of all our resolutions to the contrary, we find ourselves, as usual, encumbered with a host of varieties we know only by report. This season the total exceeds the hundred mark. When in 6-inch pots the plants are carefully observed, their manner of growth noted, also tendency to break, and liability to disease. The good as well as the bad points are almost certain to appear during the month or five weeks leading up to the final shift. Only such as promise well are shifted into the larger size, probably not more than 60%, and some of these will go, later. Varieties with a

good reputation, but whose behavior has not come up to the standard, will be planted in the open, in a nicely prepared piece of soil, and if there is anything good in them, they will have a fair chance to show it. Then again some of the very best have a habit of running to bloom prematurely. I used to throw them out without further trial, but since I have found when I must persevere, that a goodly majority of such will after this blooming period is past, grow into good specimens. I learned this by planting out the surplus plants.

Stopping, or pinching in, commenced when the plants are in the smaller sized pots, must be continued in this; in fact, the pinching should not be discontinued until well into July. The plants must be looked at, every day or two. A plant well balanced now will keep so.

T. D. H.

#### Philadelphia.

EASTER TRADE LITTLE BETTER THAN LAST SEASON.—DEPARTMENT STORES HANDLE LARGE QUANTITY OF STOCK.—ENOUGH AND TO SPARE OF LILIES.—CUT FLOWERS NOT IN AS BRISK DEMAND AS LAST YEAR.—PERSONAL.

Take it as a whole Easter probably was little better than last season. A short trip around the stores showed that a little more Easter would have been beneficial. A few Ramblers, some hydrangeas and quite a lot of lilies as well as azaleas gave the establishments a bright and cheerful look that was not reflected in the faces of the proprietors. To be able to order just enough to supply the demand seems to be almost impossible. That any Ramblers should be left over seemed strange, as this rose was the novelty of the season; the price, however, was held pretty high, the larger sizes having to be sold for from \$6 to \$8. All the medium sizes went quickly at from \$3 to \$4, retail price.

Lilies sold in all the principal retail stores at 25 cents per flower and bud. The department stores stocked up quite heavily and advertised lilies at 15 cents per flower. They also had hydrangeas, azaleas and other Easter stock, but their places being kept so warm and rather poorly lighted was hard on the stock and much of it went to waste. It seems as if they do not care to realize any profits from plants, simply handling them to draw crowds. This is rather hard on the regular retail trade, as such low rates extensively advertised are bound to affect the legitimate channels. Perhaps it is just as well that the little Bermuda mite got his work in so well the past season; there was found eventually to be lilies enough and to spare. According to the best reports about half of the bulbs started were thrown out. If everything had grown and arrived at maturity for Easter the department stores would likely have been offering lilies at about 5 cents each.

Roses and other cut flowers did not seem to be in quite as good demand as previous seasons, although large quantities were sold. There were plenty of fine Brunners, Beauties and good Bridesmaids; Brides were a trifle scarce. Carnations were held quite high, from \$3 to \$8 for a very few select *Pingree*, etc.; \$4 was the price for the best average flowers. Lily of the valley, tulips and daffodils were plentiful at \$3 to \$4. The weather on Friday and Saturday was all right; since then it has grown much warmer. April 5 it was freezing all day, to-day, 13th, the thermometer stood at 70. Great weather this.

Messrs. Robert Craig, S. S. Pennock, David Rust, and Robert Kilt, accompanied Mr. Benjamin Durfee of Washington to Joseph Heacock's place at Chelster Hills to see the new carnation Diana. This variety originated with Mr. Heacock and was purchased by Mr. Durfee. It is a fine large white, as large as any of the new ones, with a splendid constitution and perfectly healthy. The flowers, pure white, are borne on long stiff stems; it looks like a good keeper and in every way a desirable variety to grow for profit. Everything about Mr. Heacock's place appeared to be in the best of health and producing large crops of flowers; his palm houses looked particularly fine, the plants having a very vigorous appearance.

Wm. Penman is around with us again; his Nicholson's dictionary is just the thing for every man who desires to keep posted and find out in a minute the name of any plant that he is doubtful about. Mr. King, who represents him, has taken sixty orders in the past few weeks, and we venture to assert that no man will ever regret having purchased this valuable work.

Carl Jurgens, of Newport, paid this city a flying visit last Tuesday. K.

Diseases of Variegated Plants.

Every grower of plants is fully impressed with the importance of sunlight as a factor in his craft. He has learned that the solar rays produce the green substance in plants, and after it is produced the sunlight is needed to maintain that color. Therefore two essentials at least for successful plant growth are: first, sufficient light and second an abundance of green substance. That the sunlight may be too strong at times goes without saying and shading needs to be resorted to, but as a rule there is none too much of the green in plants for their best good.

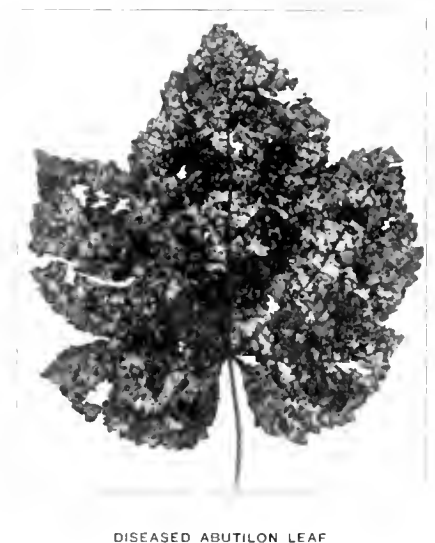
The seeming exception to this rule seen in the various variegated plants is no exception, for it is easily maintained that these are weaker than plants of the same species similarly situated that are not variegated. This green substance is lodged in the pulp cells of the leaf and it is in this green protoplasm that the crude substances are made over into the food of the plant. That is, the water from the roots and the carbonic dioxide of the air meet here, and under the influence of the solar energy are combined into substances like starch for the upbuilding of the plant. If a plant has no green substance it is unable to do this work, and must either feed upon the substances made by some other plant, and thereby become a parasite—or die. Now, it is maintained that the ordinary variegated plants like the abutilon, a specimen leaf of which is shown in the accompanying engraving, is lacking in this green and in so far as it is lacking the plant is enfeebled.

There is no question raised as to the beauty of these variegated plants, and with special care they may maintain their health for a long time, but at the same time such plants are more subject to successful attack of various enemies. Thus the foliage of the variegated abutilon is frequently blighted, sometimes so much so that the added beauty of the plant due to variegation, is more than offset by the diseases that come in to destroy the foliage.

In the case in hand the reader may be able to see that the leaf is quite generally covered with small oval or circular spots, each with a white center and a brown border. The presence of these dead spots

is somewhat obscured by the coloration of the leaf, and if they were upon an ordinary green leaf the grower might be concerned as to the health of his plant.

The writer has studied over thirty genera of ornamental plants, having one or more species of variegated plants in each, and the conclusion stated above seems to rest upon solid ground; namely, that variegation is a source of weakness, and the reason for the same is not far to seek. The green substance is the material in which food is made and there is little reason to think that an ordinary plant as a rule has, when at its greenest condition, any excess of this working material.



DISEASED ABUTILON LEAF

This being the fact it is well for plant growers to be governed accordingly and realize that variegated plants have their added attraction of non-green foliage at the expense of their vigor. For this reason they will need special care and it is not to be overlooked that they are as they are by a process of forcing due to man, and if left to themselves, if they survive at all, will drift back to the green condition common to plants growing in a state of nature.

The last point in this connection that will be mentioned is a return to the susceptibility of variegated plants to diseases. There seems to be no doubt of this and therefore such plants require more attention in the way of spraying than the common green forms of the same species. Variegated plants are in fact propagating places for diseases that when once thus well under way may spread to the standard sorts of plants without variegation.

The writer has seen the leaf spot start in a lot of *Funkia undulata* variegata and spread to all other sorts of the day lily round about. In the same way the variegated sorts of pelargonium are the starting points in greenhouses for a general blight upon its associates. Aspidistra, croton, begonia and fens are noted examples. Some propagators will not have a variegated fens in their houses, because of its breeding contagion.

BYRON D. HALSTED

CUMMINGS, Mo.—Perry Finn is putting in an improved system of water supply.

WHEELING, W. Va. W. F. Zane, South Penn street, is repairing the damage done to his greenhouses by the flood. He sustained a considerable loss, but hopes to have everything restored to proper condition for the spring trade.

Boston.

RETAILERS SATISFIED WITH EASTER RESULTS.—INCREASED PLANT SALES.—SHORTAGE IN AZALEAS.—INCUT FLOWERS VIOLETS LEADING.—CARNATIONS SUFFERING FROM PROHIBITIVE PRICES.—ROSES AND BULBOUS STOCK PROFITING THEREBY.—BREAK IN PRICES AT WIND-UP TOO LATE TO UNLOAD SURPLUS.—GOOD SALE FOR JACQS.—DEATH OF A. T. CEFREY.—VISITORS.

Retail florists here have every reason to feel pleased with the Easter experience. There is a wide variation in the reports from individuals as to the special tendency of the demand, but all agree that it was a great Easter, and that the amount of plant sales was unprecedented. The weather cleared up nicely on Thursday morning, a trifle cold at first but otherwise the ideal weather for transporting flowering plants, and the two succeeding days were simply perfect. Azaleas sold out clean, and more could have been placed easily. Hydrangeas sold fairly well, recovering from the set-back of last year. Genistas were in light demand, but indispensable for brilliant effect in the show windows. Lilies were sold in enormous quantities. Those offered in this market were, as a rule, longiflorums, not tall, and with fine solid flowers. They were lower in price than ever before owing to the sharp competition of the department stores and others. The plant trade assumed unforeseen proportions on Saturday, and as many of the florists had two stores to look after it kept them more than busy. The rush fell off suddenly Saturday afternoon and the goods then on hand remained there.

On cut flowers the rush did not get under way till late Saturday, and even then did not compare favorably with past years. Violets had a big sale, and were cleaned out completely. Cut lilies sold fairly well, but it was noticed that for church decorations where a large number of blooms were required there was a disposition to substitute callas for longiflorums on account of the heavy fragrance of the latter, which many susceptible people complain of. In some establishments the demand for roses favored the high grade flowers; in others the medium grades sold freely and the better quality flowers were left. Double tulips sold well. Carnations were held at such high figures by growers that but few were bought by the retailers, it being evident that their customers would not stand the price.

The wholesalers had considerable stock left at the close. The carnation growers had gone daft on the possibilities in carnation prices and refused to entertain good round offers on Thursday or Friday, with the result that on Saturday carnations were dead stock, and the goods that might have sold quickly on Thursday at \$5 per hundred was hunting for buyers at \$3. All the wholesalers found business, shipping and local, satisfactory on Thursday and Friday, but were forced to refuse carnations to their customers and to depend upon tired roses for much of their business, which was unfortunate. Lilies sold fine until Saturday, when a big break in prices took place and those who had backbone and refused to participate in the cut got badly left and have the goods still on hand. The peculiar condition of the carnation market helped the bulbous stock wonderfully, all this class of goods selling unexpectedly well, and the roses also profited by the situation, so that many hundred dollars that might have lined the pockets of carnation growers found its way to the strong box of the



rose men, who, with no previous rosy prospects, were glad to take it. All colored roses sold well, Jacqs especially, but at the close on Saturday there were still enough on hand to supply a good many more customers had they appeared. Late Saturday there was a break all along the line, lilies, carnations and roses suffering most and violets being the exception, but it was then too late to unload. Violets made a grand finish, and lily of the valley surprised even its friends, but without any advance on prices. There was not a candidum lily in sight at any time.

A. T. Cefrey, an old-time Boston florist, noted a quarter of a century ago for his skill in the construction of the intricate and elaborate floral productions of the period, but who, in the later time of loosely-built work, gradually drifted into semi-obscurity as a florist, died of consumption at his home in Malden on April 6. For a number of years he has been engaged in the manufacture of florists' immortelle letters and inscriptions, a business for which his deft abilities in fine detail work fitted him, but a lack of broad business capacity prevented his making more than a weak competition against his rivals in this overdone specialty. Mr. Cefrey was a native of France. He leaves a wife, three daughters and a one son.

Visitors in Boston: R. W. Clucas, of Clucas & Boddington, New York; J. D. Thompson, Joliet, Ill.; Mr. Hartshorne, gardener to Mr. Higinbotham, Chicago, and a couple of score of Belgium and Holland artists in the bulb and azalea line.

#### Asparagus Sprengerii.

An inquiry comes from Belgium as to the methods pursued in America in the culture of this comparatively new asparagus. It has not been in cultivation long enough to much more than indicate how it may most profitably be grown. It is yearly growing in favor, making friends among growers, retailers and the buyers of flowers and the accessories thereof.

It shows some inclination to climb, it is true, but up to the present time to encourage it to grow upward is not considered the best way to show the sprays off to the greatest advantage after being cut. The plant is better grown in a suspended position and the sprays allowed to droop gracefully; in that way it comes shorter jointed and makes a more desirable spray of green than if grown in any other way that I know of. It could be grown to advantage, I think, on a narrow shelf of a back wall of a rose house or similar structure where a night temperature is maintained at about 60°. It delights in the full sunlight, which means that it should be placed as close to the glass as practicable, and a shady position must be avoided if we would hope to succeed to the utmost with it.

Mr. Robert Craig has grown some fine specimen plants of this asparagus and has sold the product to advantage and profit. Mr. H. H. Battles was the first, we believe, to use it in quantity in Philadelphia, and the event was at a dinner given in honor of President McKinley by the Union League on one of the President's visits to this city recently. It was gracefully made use of in the dinner-table decoration, and cattleyas were the flowers employed on that occasion, creating a rich, dainty and beautiful effect.

Each observant and careful cultivator will find out for himself the technical requirements of this plant, if it needs any, and as above indicated it at present apparently will require to be grown in a

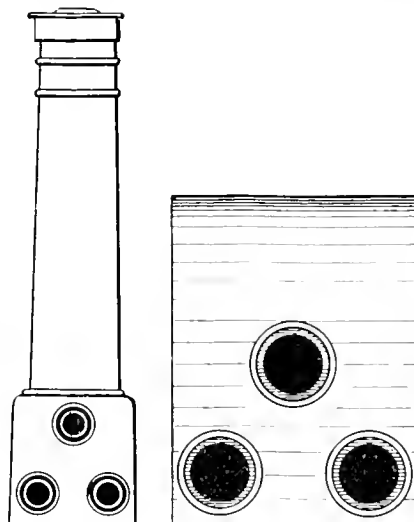
different way to develop it to the fullest extent of its beauty and usefulness to that which is adapted to most other plants. Any rich, porous soil with ample drainage seems to suit it.

The green sprays of this asparagus are likely to become in the near future an article of commerce in the marts where flowers most frequently change hands, so that it would be well to prepare for the demand. E. L.

#### Steam and Hot Water Heating.

##### PART II.

The hot water expansion tank should not be open to the atmosphere of the greenhouse. In hot water heating plants of any system, it is necessary to have what is known as an expansion tank or expansion pipe. This is a part of the pipe system, usually located at the highest point, with sufficient space in it above the cold water level to hold the additional bulk of the water after it has become heated, which is due to expansion. It makes no practical difference what the shape or style of these expansion tanks may be, so far as regards their special objects of providing space for the increased bulk of water on low pressure open systems. However, in many cast iron pipe systems for greenhouse heating,



FIGS. I AND II.

the expansion tank is used as a header for the ends of heating coils, as shown in the accompanying illustrations, figs. 1 and 2. In perhaps two respects this is a good plan, as it provides a solid support for the end of a coil, and makes it easy to connect the lines of pipe in the coil together, besides being the very best plan of delivering the hot water equally to the different pipes in the coil at the extreme end of the line from the boiler, where the tank is usually located. Many of these expansion tanks are provided with portable covers so that water can be poured into the tank direct from a pail when necessary to replenish or fill the pipes. Others are provided with automatic ball cocks and connected direct to the supply of cold water, which keep the pipe filled automatically. But all the various makes for cast iron piping are left open to the atmosphere of the greenhouse. This last point is a bad one and should be remedied.

For this class of greenhouse heating, the system must be open to the atmosphere for the reason that the pipes and

many patterns of boilers would not stand heavy pressure, which would be quite apt to form in a closed system. But it is a bad practice to have these hot water heating systems open to the atmosphere of the greenhouse, as previously stated, and the special reason for this is, on account of the large amount of hydrogen gas which is constantly escaping from the open expansion tank. It must be remembered that the so-called air which escapes from the hot water heating pipes, and radiators of heating plants, is nearly pure hydrogen gas. This is very destructive to animal life, and is also extremely destructive to vegetable life. Let the system be open to the exterior atmosphere. It is a simple matter to attach a small piece of pipe to a closely fitted top of any expansion tank, and carry same out through the top or side of the greenhouse.

The capacity of the expansion tank is determined by the number of gallons of water contained in the entire heating apparatus, and as water expands about one-twenty-fourth its bulk, in a rise of temperature from 40° to 212°, one-twenty-fourth the water capacity must be provided in the expansion tank. This will allow the water to rise and fall in the tank as it heats and cools without a loss from overflowing; but there is a loss going on at all times, especially when the apparatus is being run at high temperature, partly from evaporation, but principally by the generating and escaping of hydrogen gas. This gas is so very light that when separated from the oxygen of the water, by heat it rises quickly to the highest point in the system and escapes.

JAMES J. LAWLER.

#### Chicago.

BEST EASTER BUSINESS IN THE WHOLE HISTORY OF THE LOCAL TRADE MAKES EVERY FLORIST HAPPY.—PRICES WERE GOOD.—STOCK WELL CLEARED OUT.

The wholesale cut flower trade last week was over thirty per cent greater than that of any Easter week in its history. There was a much larger supply received than was anticipated, particularly of carnations and roses. The supply of lilies was fully up to that of any previous year, and stocks were all disposed of at prices ranging from \$10.00 to \$18.00 per hundred. This is a higher average price than lilies have brought for several years. Tulips were in good supply and sold at from \$2.00 to \$5.00 per hundred, Couronne d'Or and Murillo bringing the top price.

Lilies of the valley brought from \$2.00 to \$4.00 per hundred. Roses were in great demand, both for shipping and city trade. American Beauty sold at from \$1.00 to \$6.00 per dozen. The principal demand for Beauty was for \$2.00 to \$3.00 grades. There was an unprecedented demand for carnations to fill out-of-town orders and prices were consequently relatively high, ranging from \$3.00 to \$8.00 for fancies. The prospect of rain on Saturday depressed prices in the early morning, but the market quickly recovered and was otherwise firm all the week. Wholesalers claim to have filled orders better than ever before and few complaints are heard.

Growers were sold out of blooming plants early in the week. Lilies were most in demand. Hybrid roses sold well, with but small supply. A few good hydrangeas were in the market and sold well at good prices.

Ed. Winterson started to sell some of his surplus stock at auction a few nights

and made a success, until he laughingly offered an Easter hat with every purchase. That gave him the worst of the deal. Kennicott Brothers report that they could not get stock last week to supply more than their regular trade. Bassett & Washburn, W. E. Lynch, George Piegras, A. L. Randall, A. G. Prince & Co., Reinberg Bros., E. H. Hunt, E. C. Amling, Pochlman Bros., The Rogers Park Floral Company, and J. B. Deamud, all report trade to have been all that they could desire. Retailers report trade equal to last year, but complain that the price of carnations prohibited any profit on this favorite flower. Potted plants sold more readily than ever before.

John Cook has rented the Saxon Place at Downer's Grove.

The many friends of F. F. Smith, formerly of Aurora and afterward proprietor of the Sixty-seventh street greenhouses, sympathize with him in the death of Mrs. Smith, who was buried at Oakwoods, on April 5. Mr. Smith now resides in Denver.

Otto Mailander, who left the city some two years ago under a cloud, is reported to be in Johannesburg, South Africa.

The executive committee meeting of the Horticultural Society failed of a quorum owing, doubtless, to the Easter rush, and adjourned subject to the call of the president.

John Pochlman, of Pochlman Bros., is ill with typhoid fever.

Since Easter trade has been very dull, and an immense stock of flowers has accumulated, buyers are making their own prices.

Jas. Hartshorne is going to build ten greenhouses, 20x200 feet near Joliet. He intends to grow carnations exclusively, and will commence to build about May 1.

The Florists' Club met Thursday evening. It was private gardeners' night, and Edgar Sanders read an interesting and appropriate paper on the old time gardeners.

Visited Chicago: M. Koster.

Ornamental Bedding.

PART V.

To lay out a diamond (rhomb), we should know the length of the two diagonals. If for instance, they are nine feet and six feet, then set two pegs *a* and *b*

feet, and set the pegs *d* and *e*. The pegs at the intersections and the twine can then be taken away and *a-b-d-e* mark the diamond, peg *c* will come handy in laying out the design.

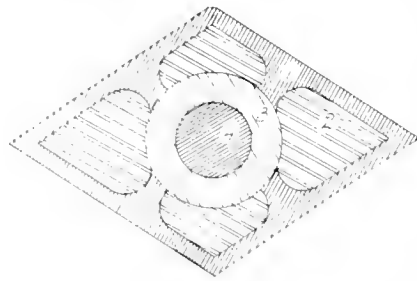


Fig. 17.—A design for the above diamond.

- 1, Alternanthera amœna spectabilis; 2, A. aurea nana; 3, Santolina incana; 4, Achyranthes Lindenii.

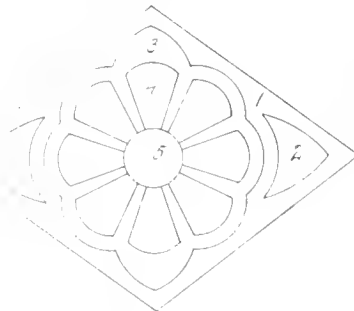


Fig. 18.—A design for a diamond 9x12 feet.

- 1, Alternanthera amœna spectabilis; 2, Pilea nana; 3, Alternanthera aurea nana; 4, A. spatulata; 5, Coleus Golden Bedder.

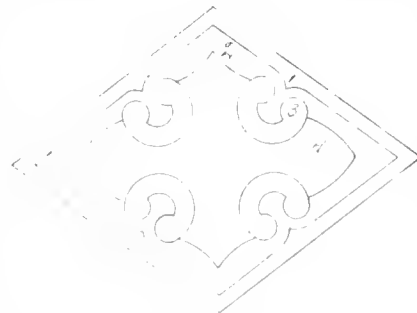


Fig. 19.—A more complicated design for same dimensions.

- 1, Alternanthera paronychioides; 2, A. aurea nana; 3, Santolina incana; 4, Alternanthera paronychioides major.

Hints on Prize Lists for Dahlia Shows.

A prize schedule should contain sufficient classes with an ample number of good prizes in each class to call forth the best competitors. In accounts of English dahlia shows I have found sixth, seventh and eighth prizes not uncommon. The inevitable result of so extended a list is to stimulate and encourage the widest competition, which in its turn reacts to arouse public interest in the exhibition.

The following schedule is offered as being sufficiently comprehensive for the largest special dahlia show and as capable of adaptation by proper selection to the smallest county fair. No number or value of prizes is indicated as this must be determined by the special circumstances of each case.

1. Show dahlias: 1, best collection; 2, best 25; 3, best 12.

- 2. Best 25; 3, best 12.
- 3. Best 12.
- 4. Pompon dahlias: 1, best collection; 2, best 25; 3, best 12.
- 5. Cactus dahlias: 1, best collection; 2, best 25; 3, best 12.
- 6. Decorative dahlias: 1, best collection; 2, best 25; 3, best 12.
- 7. Single dahlias: 1, best collection; 2, best 25; 3, best 12.

In special shows where there is sufficient material from which to draw there should be added a class of fifty in each section perhaps a class of 100 in the show and pompon sections. To the above, which may be termed formal classes should be added in liberal variety prizes for design and decorative work, arrangement for effect, plants in pots, general display, etc.

Furthermore, in a special exhibition every encouragement should be extended to the display of practical appliances for the growth, transportation, preservation or exhibition of the flower in question. I should be greatly pleased to see in the columns of the AMERICAN FLORIST any suggestions bearing on this subject. Provision ought to be made whereby the judges can make special award for a feature which is novel or of special merit. Prizes for new varieties of merit are always in order. Judges should be at liberty to withhold prizes from undeserving exhibits, and this fact should be clearly stated in the schedule that the disappointed aspirant may have no ground for complaint.

Section A should appear on the premium list of every agricultural or horticultural society in the country which holds a show at the proper season. The next step towards extending the schedule should be to add class 1 or class 3 in each section or both. Any further extension of the schedule would naturally follow in the same line. In classes 1, 2 and 3 of sections D and G not less than three blooms of a kind should be required, as individuals of the pompon and single varieties fail to do themselves justice when standing alone, especially in the presence of more brilliant company. If desired classes could be added for the cactus and Tom Thumb varieties of singles, the dwarf growing show dahlias, etc. In all classes except A named varieties should be a requirement. Several very interesting classes could be formed from a given number of a specified color as six or twelve white, yellow, scarlet, etc., and such classes would be particularly instructive by bringing similar varieties into direct comparison.

H. F. BURR.

A HUDS AND BLOSSOMS EXCURSION is the latest idea in San Jose, Cal.

ELIZABETH CITY, VA.—Mr. Jaeger is erecting a greenhouse at Albemarle Park.

COLUMBIA, S. C., will celebrate its Spring Festival with a floral fair, April 21.

ALLIANCE, O.—The boiler room of the greenhouse belonging to J. F. Zimmerman had several feet of water in it during the recent floods.

CHURCHOLD, O.—The flood filled the furnace pit of Wm. McKellar's greenhouses April 4. Serious loss of plants by chilling them was averted only by allowing the natural gas by which the houses were heated to burn on top of the water.

WINDSOR, ONT. Mr. W. T. Maccom has been appointed horticulturist at the Central Experimental Farm. The executive committee of the Windsor, Sandwich and Walkerville Horticultural Society met last week to arrange for the season's distribution of plants and seeds.

Fig. 19. where you want the bed to be laid out with any desired radius draw one of the *a* and *b* to both sides as indicated in Fig. 16, set pegs at intersections, tie a piece of twine between these two pegs, and a piece between *a* and *b*, where they meet, set a peg, *c*, and from this to each side, such that the distance of the short diagonal in this case three

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THE AMERICAN FLORIST has never been given to undignified or misleading editorial attacks. It may, however, with all modesty, invite comparison with any other paper in the trade as to those qualities which appeal to the intelligent reader. In the number and standing of its regular contributors, in the quality and quantity of its reading matter, in the mechanical excellence and pleasing appearance, in the extent of its circulation and in bona fide and paid advertising, in fact, in everything which gives a paper value to its readers, it invites comparison. It stands ready at all times to satisfy any inquirer among its advertisers as to its circulation, which it has often printed and has reason to believe is greater than that of all other papers in this trade combined.

### The Impatience of Job.

Our modern Job seems to have lost some of the attributes of his ancient namesake. He actually appears to be out of patience lately, and all just because we, in the gentlest possible manner, applied a little caustic to his pet carbuncles.

Job says our statements are "ambiguous" and that we distribute "vague" information and that "we are another." Possibly our statements were a little vague, although Job seems to have caught our meaning quite well; but then, he may have had inside sources of information.

If Job will kindly call at our office any morning about 9 o'clock, we shall take pleasure in showing him a number of documents, etc., which will remove all ambiguity and vagueness, although we do not feel at all sure that some of them at least had not been in his hands before they reached ours.

By the way, Job should have examined our Easter number before he gave away all that cake—or was it dough, we forget.

### The Plant-Food in Jadoo Fibre and Liquid.

At the present time considerable interest is being shown by florists in the use of materials known as jadoo fibre and jadoo liquid. Results of very diverse character are reported by those who have been using the materials. It may, therefore, be of special interest to learn the composition of these materials, so far as relates to the plant-food contained in them.

A chemical analysis in the laboratory of this station gives the following results:

	Per cent. of nitrogen.	Per cent. of phosph. acid.	Per cent. of potash.
Jadoo fibre	0.60	0.45	0.13
Jadoo liquid	0.10	trace	0.33

The jadoo fibre shows about the same composition as the solid excrement of swine. Except in potash it compares favorably with good mixed stable ma-

nure. As to the availability of this plant food as compared with that of stable manure, we cannot speak definitely at present, but probably the latter is more readily utilized by plants.

The jadoo liquid apparently contains about the same amounts of plant food as does dilute liquid manure, such as florists commonly use.

I am not aware that any claim has been made to the effect that these materials are in any sense concentrated plant foods, and yet there is danger that this may be inferred. To any one disposed to use jadoo fibre and jadoo liquid as an economical source of plant food, the analysis given above will indicate the actual facts, so far as relates to the manurial composition. L. L. VAN SLYKE.

New York Agricultural Experiment Station.

### Trans-Mississippi Exposition Notes.

Practically all of the space in the horticultural building has been assigned to the various seed and horticultural societies. There will be a large and beautiful assortment of palms and other decorative plants which will be used in decorating this and other exposition buildings.

The exhibits for the lawns will be furnished by a large number of the best firms in the United States, among whom may be mentioned the following: F. R. Pierson Co., a very large exhibit of cannas; W. Atlee Burpee & Co., roses and cannas; Henry A. Dreer, three basins of aquatics; J. C. Vaughan, pansies and cannas; A. Blanc, geraniums and cannas; Hess & Swoboda, verbenas; Sunset Seed & Plant Co., sweet peas; E. C. Erling, geraniums.

These exhibits will assure such a setting forth of bedding as has not been excelled on any exposition grounds in the United States. The special features consisting of a number of "Fruit Days," promise to be one of the great attractions of the Exposition.

The horticultural building is promised to the exhibition department ready for installation by May 1. All other Exposition buildings except the fine arts are completed and will be turned over to the exhibition department within ten days.

Mr. R. Ulrich has the grounds almost completely arranged for opening. He has done an immense amount of planting of trees and shrubbery and no florist or horticulturist will be disappointed in this feature of the Exposition.

The following should be added to the above list of exhibitors: W. W. Wilmore, dahlias; J. T. Lovett Co.; Cushman Gladiolus Co.; L. L. May & Co.; and W. A. Manda.

F. W. TAYLOR.

HAMPSTEAD, N. H.—A greenhouse belonging to A. D. Emerson was burned on the morning of Saturday, March 26.

CONNEAUT, O.—Mr. Henry Krueger, of Meadville, Pa., who has bought the Conneaut Floral Co., Ehrholt establishment, is an all round, up-to-date florist. He is a son of Mr. A. Krueger, the extensive florist of Meadville, with whom he has been associated in business. He will add new houses of larger and more modern facilities at the old stand of the Conneaut Floral Co., Main street, near Mill.

### Greenhouse Building.

Mitchell, S. D.—E. C. Newbury, addition 20x60.

Oneida, N. Y.—Florist Grems, one greenhouse.

### Hybrid Roses.

Hybrid roses that have done duty this Easter and are wanted for forcing a second season should not be roughly handled after the blooms are all cut from them; they need to be encouraged to make new wood for next season, and must therefore be kept growing for a while. If the soil has been washed away from the surface and the roots are exposed, it will help greatly to give them a top dressing of good live soil with a good sprinkling of bone meal; this will give them something to work on during the summer, and also prevent the sun from parching the roots. As soon as the weather is favorable, they may be placed outside and watered occasionally as they require it; but this must not be overdone—just enough to prevent the wood from shriveling.

To hasten the ripening of those that are needed for early forcing, towards fall lay the pots or boxes on their sides; this will prevent their being watered by rains and place them under better control. Should the weather prove very dry, however, it will be well to play the hose on them occasionally. The plants required for later work should on the approach of severe weather be laid down in frames or beds and covered with straw or leaves, so that they can be handled at the proper time.

When ready to start them into growth again, which should be about fifteen weeks in advance of the prospective flowering period—of course, the length of time it takes them to mature depends greatly on the kind of weather we get, but it is not wise to figure on any less than fifteen weeks—examine the drainage of the pots to see that it is in good condition and then rub a little of the soil from the surface and give them a mulch of well rotted manure. In pruning we find it best to cut them back to about three eyes, and when they have started rub all the shoots off except about four to the plant, sometimes less if the plant is weak, but it is a sure thing that the more flowers the plant has to carry the shorter the stems will be. When starting, give them a thorough watering, so that the soil is thoroughly wet through, and place them in a temperature of 45°, allowing them to start as slow as possible. When they have made some growth, gradually increase the heat till an even temperature of 56° to 58° at night during the flowering period is maintained.

The most important item in growing hybrid roses is to see that they never become dry at the roots, as they need lots of water, or short stems and buttons of flowers will be the result. All sudden changes in the temperature must be avoided, but they delight in an even temperature of about 70° on bright days, with a current of fresh air passing through the house, and on dull days a temperature of 60° is best for them. When in full growth, give liberal applications of liquid manure two or three times a week. In starting fresh stock it is best to pot or box them in the spring and grow them on through the summer; they will then be well rooted by the time they are needed, and able to stand feeding more, giving better results.

C. W. JOHNSON.

A PORTRAIT of J. J. Harrison, of The Storrs & Harrison Co., with an interesting sketch of his life, appears in the *National Nurseryman* for April. Mr. Harrison was born in Kent, England, in 1829. The capital stock of the company is \$150,000 and the surplus \$47,000.

Cincinnati.

The last week of the Lenten season closed with a good demand for flowers, in fact our storemen and wholesale houses report having had a brisk demand for choice stock all week and a small increase. The same can not be said of the market trade. Easter Saturday opened up bright and clear and the flower market on Sixth street was well worth a visit. All of our florists were on hand, and their stands were well stocked with choice plants. *Deutzia crenata* (an ideal Easter plant) made a good showing, but strange to say, moved slowly. Lilies were scarce the first part of the week and wholesaled at far better prices than could be realized on Saturday at retail; 75 cents for good plants was the top notch. Roses, azaleas and ferns were in the lead this season, while tulips, hyacinths, cinerarias and spiraeas were a glut and had to be sold at regular market price. Hydrangeas were not up to former years, and those sold looked pale and soft. The boys at the market report a decrease in value of at least 35%. Mostly all of the stands had a good display at 10 p. m. Saturday, something unusual for Easter. The following were the ruling Easter prices at the market. Carnations 35 cents to \$1 per dozen. Roses, teas, \$1; hybrids, \$1.50. Narcissi, tulips, hyacinths and lilies of the valley, 50 cents per dozen, and lots of them were sold in the evening for less. There was evidently nothing new in the line of Easter plants in market. H. SCHWARZ.

Providence, R. I.

Again we have passed the trying times of Easter week, and still live to tell the story. The weather was all that could be desired, up to Sunday morning when the April showers interfered somewhat with those who were not sold out on Saturday. On the whole trade was very satisfactory. Prices were all right and stock was fully up to former years in quality.

Carnations were a little shy as well as good violets. Roses were fairly plentiful. Bulb stock sold very well at former prices. As a rule the 25% advance caused by the tariff came out of the dealer. Bulbs in pots and pans were sold in place of bouquets, for cemetery use many preferred them to bouquets or cut flowers. General prices of carnations ran from 50 cents to \$1 per dozen. Roses from \$2 to \$4 per dozen. Some fancy roses brought \$5 per dozen.

Geo. H. Tasker a well known gardener here committed suicide by poison a few days since. Mr. Tasker was a very faithful conscientious man, but on account of ill health had been despondent for some time. He was about 60 years of age and leaves several children, his wife having died a few years since.

Some evil disposed person forced an entrance into the greenhouse of Wm. Appleton Jr. just before Easter and abstracted therefrom a quantity of choice cut flowers to the amount of about \$25.

The city fathers made an appropriation of \$2200 for an addition to their greenhouse at the North Burial Ground, it will be of a great assistance about 20x100.

Miss Florence Willard, of the Hope Greenhouse has the contract this season to furnish plants for the beds at Roger Williams park.

Our good friend, Wm. Butcher has been confined to the house some weeks but made a effort to get out Easter week to attend to the details of the week's work. LITTLE RUDY.

New Orleans.

The ninth flower show of the New Orleans Horticultural Society has just closed at Odd Fellows Hall. As a floral exhibit it left nothing to be desired.

The grand collection of foliage plants and orchids belonging to Mrs. J. Richardson, and so ably handled by Mr. H. Papworth, was displayed in fine condition, together with a fine group of specimens from the Hensheime estate. It made up probably the largest display of rare plants obtainable in the south.

The prizes were fairly divided between H. Papworth, E. Valejo and Abel Bros. Special mention was given to J. St. Mard, J. Newsham and M. M. Lapouyade. C. W. Eichling won the first honor for floral design and for the best display of seeds and florists' supplies.

It is to be regretted that more of the commercial members of the association did not exhibit. Competition is admittedly the life of trade, and this applies no less in floral expositions, without it they will be dull and poorly attended. We cannot blame the public should they be indifferent, if among the florists themselves the same evident disposition exists.

Financially the show was not a success. The society will soon take action in regard to the November chrysanthemum show.

M. M. L.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By No 1 grower of roses, carnations, violets and general run of cut flowers; married, 27 years' experience. References. P. R. care American Florist.

**SITUATION WANTED**—Single, age 30; grower of roses, carnations, mums, v. lets, palms, ferns, etc.; qualified to take responsible position commercial or private. F. A. H. care American Florist.

**SITUATION WANTED**—By good, all round greenhouse man, age 27; 10 years' experience (Holland). Best of references. Can come at once. Address H. KLEINSTADT, station A, Louisville, Ky.

**SITUATION WANTED**—As working foreman; good rose grower, propagator and general stock. References. Only those wanting good man and can pay over \$30 per month need apply. Address K. K. care American Florist.

**SITUATION WANTED**—A man 30 years of age, single, wants position in commercial place; good grower of roses, carnations, mums, palms and general stock. Best of references. At liberty April 1. F. H. B. care American Florist.

**SITUATION WANTED**—Private or commercial, by a rose grower (Beauty) cut flowers and general greenhouse stock. Can take full charge; strictly sober; married, age 29. Eastern States. Address BEAUTY, care American Florist.

**SITUATION WANTED**—By practical florist, single; 10 years' experience, roses, carnations, violets; knowledge of floral work outdoor bedding, etc.; competent in all greenhouse work. References. Wages \$30 per month. CAPABLE, care American Florist.

**SITUATION WANTED**—By a thoroughly practical gardener and florist to take charge of private or commercial place. If I class rose grower and other floral stock. 30 years' experience in commercial and florist class private places. Best of references, married. Address PRACICAL, 28 Oak St., Bridgeport, Conn.

**WANTED**—All round florist in commercial place; single. E. G. GLEBE, 627 1/2th Ave., Oak Park, Ill.

**WANTED**—20 to 25 year old field grown Crimson Rambler, also yellow and white. Address GEO. A. JOHNSON, Omaha, Neb.

**WANTED**—Two assistants in cut flower greenhouse establishment to do general work. Apply with references, address, stating salary expected. POEHLMANN BROS., Morton Grove, Ill.

**WANTED**—A good all-around greenhouse man with experience in rose growing for cut flower market and first class references. WILGASD, BROS., West Hoboken, N. J.

**WANTED**—Carnation grower, only one thoroughly posted need apply, single man preferred, state wages and ref. return. MIDDLE STATES, care American Florist.

**WANTED**—AT ONCE—A florist, German and single; wages for the first two months \$30, and after that \$25, board and washing included. Steady work the year round. A. SENFF, Menominee, Mich.

**WANTED**—At once, an all-around gardener for a summer resort; German preferred; single; wages \$75 a month, board and lodging; references required. Address HOTEL SCHWARTZ, Elkhart Lake, Wis.

**WANTED**—To rent a small florist establishment of four or five houses near either Philadelphia or Boston, with privilege of buying same, if satisfactory. Address A. B. C. Madison Eagle, Madison, N. J.

**WANTED**—Six or eight good men for petting and assisting in the greenhouses; fair wages and steady employment given. Do not write, but make immediate application at the greenhouses to Hinsdale. BASSETT & WASHINGTON, Hinsdale, Ill.

**FOR SALE**—Greenhouses on principal street in the city. For particulars apply to J. H. REBSTOCK, 384 Main St., Buffalo, N. Y.

**FOR SALE.** Two greenhouses with 21 acres of land in town of about 10,000, between two good markets, Buffalo and Rochester. Reason for selling, recent death of proprietor. Address A. WILLIAM, 27 Pearl St., Batavia, N. Y.

**FOR SALE**—The greenhouse establishment of Schiller & Kuske formerly Schiller & Mallander, is offered for sale at a great sacrifice; \$9000 will buy 2 1/2 to 30 acres of valuable ground, 23 greenhouses, comprising 37,000 square feet of glass; wells, 2 nice dwelling houses, stables, etc., located in the village of Niles Center, about 12 miles from the heart of Chicago; 1 1/2 miles to depot. Terms, \$5000 cash, balance on time; investigate. Address correspondence to Poehlmann Bros., Morton Grove, Cook Co., Ill., or Herman Schiller, 820 W. Madison St., Chicago.

FOR SALE AT A BARGAIN.

A newly built but well established florist business of 10,000 feet of glass. Centrally located and well stocked. Sickness cause of wanting to sell. Address

BUSINESS, care American Florist.

FOR SALE

Six Greenhouses; about 14,000 feet of glass, well stocked; wholesale and retail; town of 4,000; no competition; less than one hundred miles of Chicago; two railroads. For particulars address

"A." care American Florist.

FOR SALE OR RENT VERY CHEAP.

I offer for sale or rent my undivided half interest of the real estate of the greenhouse property formerly known as Schiller & Mallander situated in the village of Niles Center, about 12 miles from business center of Chicago and 1 1/2 miles from Morton Grove R. R. Depot. The property consists of 23 greenhouses, 2 dwelling houses, barns, wells and necessary sheds on 2 1/2 to 30 acres of land. Inv. slight. Price for undivided half, \$1,000; terms \$1,000 cash, balance payable in seven yearly installments, secured by mortgage. Notes bearing 6 per cent interest. Or will rent or lease to some responsible party for a term of years at an annual rental of \$40.00 giving option to lessee to buy my interest for above stated price, provided that said lessee will make repairs the first year to the extent of \$1,000. Will acquire deed to property May 15. Address

MRS. B. KUSKE,

Care Poehlmann Bros., Morton Grove, Cook Co., Ill.

EXECUTOR'S SALE

Fine Specimen, Ornamental and Japanese Plants, Rare Orchids, Vases, etc., at the Hayes Estate "Oak Mount,"

Lexington, Mass.

SATURDAY, APRIL 30, 1898 AT 10 A. M.

All the plants on this large estate—Azaleas, Rhododendrons, Palms, Bay Trees, Orange Trees, Rubus, English Holly, Hydrangeas, Agaves, Double-flowered Geraniums, etc., etc.

One of the finest collections of plants ever offered for public competition. Can be seen on and after April 25. Terms cash; deposit required. Terms leave Union Station, Boston, at 8:15, 9:15 and 10:15 a. m.

Friday, April 29, at 10 a. m. the furniture, paintings, china, bronzes, etc., will be sold.

EDWARD HATCH, Auctioneer.

22 DEVONSHIRE ST., BOSTON.

**Plants Under Benches.**

ED. AM. FLORIST: Will you be good enough to inform us what is the best variety of ferns or other foliage plants to grow under benches for furnishing foliage?  
S. N. Co.

I do not know of anything that could with confidence be recommended for the purpose as above indicated, for although ferns are natives of woods and shady nooks, they rebel against the treatment they would most likely receive beneath a table; besides they would be subject to the drip from the watering going on above which would carry down with it more or less dirt, giving the "green" a muddy appearance, thus rendering it anything but desirable to be used with flowers. The space beneath the tables may be used for storing lots of things which with judgment may be held in a semi-dormant state, but as a place to grow plants to furnish foliage to be used with flowers is hardly to be recommended. Has anyone tried Asparagus tenuissimus for that purpose? It is the only green that I know of that would be likely to thrive under the proposed conditions. If any reader can furnish the desired information for S. N. Co. it will be cheerfully published in these columns.  
L. E.

HAUPT'S Louisville (Ky.) Floral Bazaar made up an immense floral fish for the American restaurant last week. The design was eight feet long on a base of palms and blooming plants, and we regret that a photo of it proves too indistinct to reproduce.

Cut Flower Price Lists Received.  
\* Kennicott Bros. Company, Chicago; W. A. McFadden, Cincinnati; Wm. F. Kasting, Buffalo.

**ASHES CHEAP.**  
ALSO PURE GROUND BONE.  
Write for prices.  
GEORGE STEVENS, Peterborough, Ont.

**Wholesale Flower Markets**

CINCINNATI, April 14.	
Roses, Brides	4 00
" Bridesmaids	4 00
" Meteors	5 00
" Morgans	4 00
Carnations	1 50
Daisies	40
Cattleyas	50 00
Dendrobium noble	8 00
Smilax	10 00
Farleyense	8 00
Adiantum	1 25
Asparagus	40 00

ST. LOUIS, April 14.	
Roses, Beauties	3 00@35 00
" Meteors	3 00@10 00
" Brides, Bridesmaids	4 00@10 00
" Perles	3 00@6 00
" Kaiserin	4 00@10 00
Carnations	3 00@6 00
Violets, California	1 00
Lily of the valley	2 00
Harrill	15 00
Callas	10 00
Tulips	3 00@5 00
Narcissus, Romans	1 00@2 00
Smilax	15 00@20 00
Freesia	2 00@2 50

MILWAUKEE, April 15.	
Roses, Beauties	15 00@35 00
" Brides, Bridesmaids	6 00@10 00
" Perle, Belle	4 00@6 00
" Meteors	6 00@10 00
Carnations	4 00@5 00
Violets	.75@1 00
Romans	3 00@4 00
Lily of the valley	3 00@4 00
Freesia	3 00@4 00
Tulips	3 00@4 00
Von Sions, Jonquills	3 00@4 00
Callas, Harrill	12 50
Smilax	15 00@20 00

BUFFALO, April 14.	
Roses, Beauties	10 00@40 00
" Brides, Bridesmaids, Meteors	4 00@8 00
" Perles	3 00@5 00
" Niphetos	5 00@6 00
" Kaiserin	4 00@8 00
Carnations extra	2 00@3 00
" ordinary	1 00@2 00
Lily of the valley	3 00@4 00
Violets	.75@1 25
Hyacinths	3 00
Harrill	8 00@10 00
Callas	7 00@10 00
Tulips	2 00@3 00
Daffodils	3 00
Pansies	.40@.50
Smilax	15 00
Adiantum	1 00@1 25
Asparagus	50 00@75 00

It is good business policy to mention the  
**...AMERICAN FLORIST**  
when you write to an advertiser.

**C. A. KUEHN,**  
**Wholesale Florist,**  
1122 PINE STREET,  
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A complete line of Wire Designs.

**MOUND CITY CUT FLOWER CO.**  
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**50 CENTS.**  
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ROOTED GARNATION CUTTINGS

Albertina and Bride'smaid \$2.00 per 100;  
Daybreak \$1.50 per 100; Lizzie McGowan,  
Ivory, Lizzie Gilbert, Fred Dorner and  
Rose Queen, \$5.00 per 1000.

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**HIGH GRADE CUT FLOWERS,**

PACKED RIGHT,

so they will reach you in just as good condition  
as they reach us

WIRE DESIGNS: A Full Line. Write us for  
our Illustrated Catalogue.

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WHOLESALE GROWERS OF

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600,000 feet of Glass. We can fill all orders on short notice with all leading varieties of  
Roses and Carnations. We are Headquarters for Fine American Beauties. Give us a trial and  
convince yourself.

### ROOTED ROSE CUTTINGS

Plants and cuttings sent by express at plant  
rate (20 percent tax for Mail Order orders)

	Per 100	Per 1000
BRIDE	\$1.50	\$12.50
BRIDESMAID	1.50	12.50
PERLE	1.50	12.50
METEOR	1.50	12.50
AM BEAUTIES	2.50	20.00
BELLE SIEBRECHT	1.50	12.50

REINBERG BROS., 51 WABASH AVENUE, CHICAGO.

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Best varieties of Young Roses in 2 1/2-in. Pots.  
Fine well cured Pearl Tuberose Bulbs, per 1000. \$ 7.50  
Extra fine mixed Gladioli Bulbs, per 1000. 12.50  
Fine mixed Gladioli Bulbs, per 1000. 7.50

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## Wholesale Flower Markets

CHICAGO, April 15.

Roses, Beauties	per doz. 1.00@3.00	
" Brides	2.00@ 4.00	
" Meteors, Bridesmaids, Kaiserlin	2.00@ 4.00	
" Gontlers	2.00@ 3.00	
" La France, Testout	3.00@ 5.00	
Carnations, common	.75@ 2.00	
" fancy	3.00@ 5.00	
Violets	.46@ .75	
Narcissus, Romans	2.00@ 3.00	
Harrison, Callas	5.00@ 8.00	
Lily of the valley	2.00@ 3.00	
Tulips	1.50@ 4.00	
Yon Slons	2.00	
Hyacinths	3.00@ 6.00	
Adiantum	.50@ 1.00	
Smilax	12.00@15.00	
Asparagus	10.00@75.00	
Pansies	.75	

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HEADQUARTERS FOR AMERICAN BEAUTIES.

### ROSE PLANTS

	out of 2 1/2-inch pots.	per 100	per 1000
American Beauty		\$3.00	\$25.00
Meteor		3.00	25.00
Perle		3.00	25.00
Bride		2.50	22.50
Bridesmaid		2.50	22.50
La France		2.50	22.50
Kaiserlin		2.50	22.50
Belle Siebrecht		2.50	22.50
smilax plants		2.00	15.00

### ROOTED CARNATION CUTTINGS.

	2,00	15.00
JUBILEE	1.00	7.50
Wm Scott	1.00	7.50
Nancy Hanks	1.00	7.50
Tidal Wave	1.00	7.50
Portia	1.00	7.50
Lizzie McGowan	1.00	7.50
Goldfinch	1.00	7.50
Mrs. Thompson	1.00	7.50
Daybreak	1.50	12.50
Emma Woelher	1.50	12.50
Meteor	1.50	12.50
Lizzie Gilbert	1.50	12.50
Harrison's White	1.50	12.50
Bridesmaid	1.50	12.50
Siren	3.00	25.00
Flora Hill	1.00	7.50

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 SUPPLY  
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 ALL THE YEAR ROUND.

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 Wholesale Florist,  
 No. 1403 Fairmount Avenue,  
 Telephone, Long Distance. PHILADELPHIA.

**Wholesale Flower Markets**

New York, April 13.

Roses, Beauties, Hybrid	6 00@25 00
" Jacqs	4 00@ 8 00
" Brides, smalda, Testout, Carnot	2 00@ 6 00
" Morgans, Meteor	2 00@ 5 00
Carnations	1 00@ 1 50
" fancy	1 50@ 3 00
Lily of the valley	2 00@ 3 00
Mignonette	2 00@ 4 00
Daffodils, Tulips	1 50@ 2 00
Violets	50@ 1 00
Harrisil, Callas	4 00@ 5 00
Asparagus	30 00@ 50 00

BOSTON, April 13

Roses, Beauties, Hybrid	10 00@35 00
" Brunners	6 00@25 00
" Morgan, Meteor	4 00@ 6 00
" Brides, Bridesmaids, Carnot	2 00@ 8 00
Carnations	1 50@ 2 00
" fancy	2 00@ 4 00
Lily of the valley, Daffodils, Tulips	1 00@ 2 00
Violets	50@ 75
Harrisil, Calla	2 00@ 6 00
Asparagus	50 00

PHILADELPHIA April 13.

Roses, Beauties, select, per dozen	3 00
" medium	6 00@15 00
" Brunners	16 00@35 00
" Teas	4 00@12 00
Carnations	1 00@ 2 00
" fancy	2 00@ 3 00
Lily of the valley, Narcissus	3 00@ 4 00
Violets	50 @ .75
Hyscintha	2 00@ 3 00
Harrisil	8 00@10 00
Sweet peas	1 00@ 2 00
Smilax	12 00@15 00

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 ROSES, CARNATIONS, VALLEY  
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Floricultural Nomenclature.

The nomenclature committee of the Society of American Florists is desirous of laying before the society any cases of misnaming or double naming of plants handled by the American trade...

WILLIAM TRELEAEE, Chairman. Mo. Botanical Garden, St. Louis, April 1, 1898

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Large flowering varieties. Rhododendrons, Ampelopsis, Azalea, H. P. Roses, Tree Roses, etc., etc. Lilies, Tuberoses, Begonias and Primulas...

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(Rosa Wichuriana) Strong field-grown plants, \$50, \$75 and \$100 per 1000. SAM'L C. MOON, MORRISVILLE, Bucks Co., PA.

- 3,000 ROSA RUGOSA at \$100 per 1000
8,000 DAHLIAS Whole roots at \$40 per 1000.
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100,000 SHRUBS Assorted, \$50 to \$125 per 1000.
50,000 SHRUBS Assorted, large sizes, \$125 to \$250 per 1000.
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50,000 Sugar, Norway and Silver Maples \$10 to \$14 foot.
50,000 DECIDUOUS TREES Leading Varieties.

Satisfactory Prices. Correspondence Solicited. THE Wm. H. MOON CO., Morrisville, Pa.

HARDY Herbaceous Perennials THE MOST COMPLETE STOCK IN AMERICA.

PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC. JACOB W. MANNING, The Reading Nursery, READING, MASS. ESTABLISHED 1854.

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Assorted in 25 Varieties. My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

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SPRINGFIELD, N. J. New Fruits and rare Ornamentals. Shade Trees, Shrubbery, Privet, Specialties. 100,000 Peach at lowest prices. Catalogue free. Agents wanted.

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Table listing various herbaceous plants and their prices per 100. Includes Aothericum Lillastrum, Achillea, Adonis Vernalis, Anemone Japonica Alba, etc.

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FLORISTS AS WELL AS NURSERYMEN HANDLE MY NURSERY-GROWN EVERGREENS AT A BIG PROFIT

Leaders for this season. 300,000 transplanted Hemlocks Over 1,000,000 of the beautiful Rocky Mountain Evergreens. 200,000 Red Cedar from northern seed and millions of the old standard sorts, such as Spruces, Pines, Birsams and Arbor Vitae.

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100 ACRES IN ORNAMENTAL TREES AND SHRUBS

Deciduous Evergreen, Hedging, Vines, Bulbs, Tubers, Etc. NEW 1898 CATALOGUE, 10 PAGES, FREE. Glenwood Nurseries, The Wm H. Moon Co., MORRISVILLE, PENNA.

Nursery Stock Cheap

10,000 Ampelopsis Veitchii strong field-grown plants \$50 and 75. 50,000 California Privet transplanted, extra fine \$10 to 25 each. 1,000 Shrubs, 10 varieties for \$40.00. China Evergreen Honey-suckle \$30.00 per 1000. THE ELIZABETH NURSERY CO., ELIZABETH, N. J.

HENRY A. DREER 714 Chestnut St., PHILADELPHIA.



**A Drummer's T waddle.**

It came, Easter, and while it is but freshly recorded on time's scroll of the past and before its flowers have scarcely withered we can write rejoicingly of propitious weather, thronged religious celebrations, artistic displays of hats and gowns and towering loads on loads of flowers. Religious ceremonies, fashion's display and the crowning work of the florists have been observed, enjoyed and in a season of most perfect weather, and taking a sordid view it was most prosperous for the florist. We believe the summing up will show no better Easter record than the one just made. The blizzard of the early part of the week made misgivings, but it was only the lion which went out as the lamb at the latter end, making happier and brighter scenes at the windup. Even rumors of "grim visaged war" did not break in on the observances of the season nor detract perceptibly from its glory, nor tighten the purse strings of the public. Everything in the shape of plants and flowers went with a rush at good prices. Lilies and carnations, especially the latter, being hardly obtainable at \$4 to \$5 per 100, with lilies ranging all the way from 6 to 8 cents for poor, to 12 and 13 cents for good, and would have brought more if asked on Friday and Saturday market days, and we hope your reports from all points will show similar healthfulness of the Easter market, and that the florists will have many "pretty pennies" to count, and will now sober up from the whirl of a busy week—nothing stronger implied—and be ready for the onslaught of the drummers who will literally spring from the ground and spread over the land with their accustomed energy. The trade will be enabled to study ethnological peculiarities of this class, growing more and more cosmopolitan of late, so that now we have them from "Yurup, Arup, Irup, and Orup," all bent on squelching the simon pure, irrepressible and irreproachable United States drummer, who asks no intervention or protection, but only a chance to be heard for his cause. He will be here and can be found when customers want to exercise their American prerogative of kicking, and while he stands up against the wall—with eyes askant the dog kennel, mentally estimating the strength of Towser's almost too fragile chain, and meekly listens to complaints of this, that and the other, of things of which he is as irresponsible and guiltless as the far away man in the moon—oceans will divide you and the foreign fellow and there is no satisfaction in such long-distance kicking. As Falstaff said, "Give me a man who can face me," and for this consideration these pilgrims claim good will for him who is with you "in the warmth of summer and the coolth of winter," pushing home enterprises, and who is known the country over for his "chin" and commercial achievements.

New York. EDDY.

**"Eastertide."**

Under this title the Chicago Tribune delivers itself on Easter Sunday of an article from which we clip the following:

The best Easter lily comes from New Jersey. The bell is larger and more on one stem than the native lily of Illinois. The long journey which these flowers take requires careful packing. Each bunch is wrapped separately and there are twenty-five blossoms in a bunch. The stems are wrapped in wet cotton, surrounded with oiled paper. Sunflax, daffodils, and hyacinths are natives of the South. The jasmine is also a southern flower, but comes later in the season. Lilies, tulips and carnations are grown in the local nurseries. With the exception of that of California,

it is said the Illinois carnation is the best in the world.

Nearly 70 per cent of the retail flower dealers in the city are Greeks. There are some Italians, but not many. Formerly the Greek flower vender invested what little money he had left after his arrival in America in red and yellow roses, violets and carnations, selected a street corner, and straightway became a merchant. The business is a good one, and the profits so large that the dealer can rent a large store on the ground floor of a business block where rents are highest.

NEW BEDFORD MASS.—A boiler at Mr. Rennie's greenhouses on Union street blew out on April 3, flooding the pit and extinguishing the fire. The stock suffered much by exposure to cold during repairs.



Large Field-Grown Roots in all the Leading Varieties \$5.00 to \$7.00 per 100.

**30,000 DAHLIAS**

Before ordering your Dahlia stock be sure and send for my catalogue of novelties and standards of the best quality and at the lowest prices. All stock guaranteed true to name.

W. W. WILMORE, Dahlia Specialist, Box 382, Denver, Colo.

**RUDBECKIA "Golden Glow" (HARDY)**

Excellent for cut flower purposes in late summer. Strong plants. \$6.00 per 100; \$40.00 per 1000.

IRIS KAEMPFER strong clumps in ten varieties, labeled as to color. \$1.00 per doz.; \$6.00 per 100.

Edwin Lonsdale,

Money Order Office. Station H. Phila. Florist, CHESTNUT HILL, PHILA. PA.

**50,000 MARIE LOUISE RUNNERS**

at \$4.00 per 1000, 60c per 100. Cash with order.

Want to exchange above also for young American Beauties, Wootton and Meteor Roses, as well as all the newer Carnations.

HILLSDALE FLORAL PARK, Hillsdale, Mich.

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**Armstrong's Everblooming Tuberoses**

A NEW departure in Tuberoses growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

For Prices and Particulars ...Address...

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36 First Prizes out of 39 entries in 1896 and 1897.

Send for 1898 illustrated wholesale catalogue before placing orders elsewhere.

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A No. 1 stock. Clean and healthy. No disease. Lady H. Campbell Clumps... per 100, \$3.00 M. Louise Clumps... " 3.00 Furubar Clumps... " 3.00 California Clumps... " 3.00 Well rooted runners of the above varieties, \$4.00 per 100 except Furubar, which is \$5.00 per 1000. Cash with order or satisfactory reference.

JNO. F. WALKER, Waldrop, Va.

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THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

The seed trade reports poor business for the past ten days. The early season showed such an increase that very hopeful views were indulged in, later results show a material falling off for the middle of the season.

LILUM LONGIFLORUM is being grown more extensively in Japan doubtless owing to the American demand. As a result of this it is said that the planting of L. auratum has been reduced and prices on them will be higher.

ship, and always ready by word or deed to help his friend or neighbor, he will be remembered by many in the seed trade as a model seed grower. W. H. GRESELL.

MINNEAPOLIS, MINN.—S. Y. Haines writes April 11: The outlook for the mail seed trade from our standpoint is a "dead duck in the pit." The blue jay and robin redbreast are now singing the funeral dirge of the season, which is a phenomenally short one. While February and March showed a good gain over last year, April now shows a larger proportion of loss against April of last season. To size up the situation, we do not believe the mail order houses will average as large a business as last year. Those who were in the field early may make a fair showing, but the boys who came into the fight late are very likely to come out minus a profit. Counter trade for the retail establishments should be good, for the market gardeners appear to be buying liberally this spring.

BALLSTON SPA, N. Y.—Olof Peterson recently employed by John Shafer, has purchased a greenhouse at Round Lake.



THOMAS V. MAXON

A Model Seed Grower.

The late Thomas V. Maxon, who died at his home, Adams, N. Y., October 31, 1897, after a short illness, was widely known in the seed trade circles of this and other countries. He was born in Peterborough, N. Y., March 24, 1823, and was raised on a farm. As a young man he taught school several terms. He married in 1847 and soon after moved to Adams, where he bought a farm which in succeeding years was greatly improved. He began the business of seed growing about 1855 in connection with James M. Cleveland. The partnership continued only a short time, but Mr. Maxon was engaged in the business alone until the time of his death. He was one of the best informed, most successful and careful growers of his time, and spared no effort or expense to raise his goods of the best quality. His reputation for the greatest integrity in all his dealings both at home and abroad, and his governing principle that the best article is the cheapest and most profitable at any price.

Mr. Maxon was a member of the New York State Agricultural Society and held the position of superintendent of cat- sheep exhibitions, and was very successful in his work. He also was president of the Jefferson County Agricultural Society. A number of pure-bred prize-winning



**RAFFIA** BEST QUALITY, LONG MADAGASCAR  
Having purchased on a very favorable market, and wishing to move the stock quickly, make the following special low quotations for prompt orders.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at 9c 50 lbs. or over at 10c 25 lbs. or over at 11c 10 lbs. or over at 12c  
Less than 10 lbs. at 15c per lb., f. o. b. Phila; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

**Grafting Wax**

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent.

**G. C. WATSON,**

Juniper, below Walnut, - PHILADELPHIA.

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**TRY DREER'S GARDEN SEEDS,** Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.  
**HENRY A. DREER,** Philadelphia, Pa.  
Mention American Florist.

**SEEDS LAWN GRASS** \$12.00 per 100 lbs  
Finest Quality Ever Offered. Retail at 30c lb.  
**J. CHAS. McCULLOUGH, SEEDSMAN,** REEHLBANKER AND JOHNER GRASS BREEDER  
South East Corner Second & Walnut Sts., Cincinnati, O.  
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**August Rölker & Sons, Spring Bulbs, Florists' Supplies, SEEDS**

IMPORT ORDERS booked now for forcing Bulbs, Azaleas, Lily of the Valley, etc., for full delivery; send for terms to  
**52 Dey Street, - NEW YORK.**

**NEW · GIANT · ESCHSCHOLTZIAS, "THE GOLDEN WEST."**

50c pkts., \$8 oz.  
New Giant Fancy Cosmos, six splendid varieties, separate, \$1 oz.; Giant Cosmos, splendid mixed, 65c oz.; Calliopsis "California Sunbeams," \$1 oz. Special rates given on Cosmos in quantity: Apple Geranium, fresh, \$1 per 1000 seeds; New Large Flowering Zonale Geranium, \$2.50 oz.; Ipomaea, "Heavenly Blue," \$1 oz.; \$12 lb.; Laurustinus grandiflora, \$1 oz.; Zinnias, "New Curled and Crested," 50c oz.; \$5 lb.; Nasturtium Good Venture Mixture, 60c lb.; \$8 per 15 lbs.; Seaforthia elegans (Palm) 40c per 100 seeds, \$3 per 1000 seeds. Send for trade list of Seeds, Plants, Bulbs and Cutti.  
**MRS. THEODOSIA B. SHEPHERD,** Ventura-by-the-Sea, Cal.

**CLUGAS & BODDINGTON CO.** Importers and Exporters of **Seeds, Bulbs & Plants,** 501 to 503 W. 13th St., **NEW YORK CITY.** Send for quotations on all Florists' Bulb Stock

**Notice!**  
LAST Friday morning my office and books were destroyed by fire, also all orders I had on file, also money orders, which I had not cashed yet. Customers will please notify me how money was sent so it can be traced.  
**C. HUMPHREY,** Clay Center, Kan.

**Seed Stores and Flower Stores**  
Can profitably handle our Packages of Plant Food. Attractive, take little shell room. Valuable booklet free. Good profits.  
**The WALKER FERTILIZER CO.** Clifton Springs, N. Y.

**St. Paul.**

EASTER TRADE GOOD.—SALES 25% TO 40% BETTER THAN LAST YEAR.—SUPPLY EQUAL TO DEMAND—CALL FOR COLORED FLOWERS.—SPECIAL DISPLAYS.—VISITORS.

Easter trade was good, better than for several years as reported by all we have seen, and in the aggregate much better than ever. The money value of sales was anywhere from 25% to 40% larger than last year. Prices were about the same though good lilies sold at a higher figure. The weather was perfect, and conditions for delivering plants were just right.

There was enough good stock to go round, with but little left over. The only noticeable shortage was in violets and carnations. Cut flowers were in big demand.

Retail prices were as follows: Roses, \$1.50 to \$2.50 per dozen; Beauty, \$4 to \$9; carnations, 75 cents to \$1; lilies, \$3; valley, tulips, etc., 75 cents; violets, \$2 to \$3 per 100. Smilax was scarce, but an abundance of asparagus and some wild smilax and ferns helped to make up the deficiency. Several large consignments of roses and carnations were received from the east, all in good shape, and for once the grower did not pickle his stock to any great extent. In the plant line nearly everything sold well. Azaleas went well. Hydrangeas, well done and nicely colored were the freest sellers of any, though this stock was somewhat limited in quantity.

One very noticeable feature in this year's trade was the call for colored flowers, both in cut blooms and plants. Bulbous stock in general sold slowly. While cut blooms of tulips, daffodils, etc., are very handy in filling boxes of assorted flowers, their day of usefulness is drawing to a close, and in a few years more will be discarded entirely. If this prediction proves true, what will our Dutch friends use for a dumping ground?

Orders were for larger amounts than last season. Shipping trade was never better.

The church decorations here were not elaborate. Lilies and palms constituted the bulk of the stock used in the wealthiest churches, while a number of the Sunday schools gave small plants as souvenirs to the children, a very pretty custom, and one which will benefit the florist in many ways.

Aug. S. Swanson had a special Easter display in an elegant store on East Sixth street. L. L. May & Co. had an elegant display in their store and conservatory.

Chris. Hansen had his large store quite well filled with lilies, palms, etc. Holm & Olsen had their usual display of good things and an exceptionally fine trade. E. F. Lemke had a good stock of everything desirable and sold out early.

Dr. R. Schiffmann has returned from an extended Central American trip, where he went to look for orchids, his favorites. He secured some specimens of *Laelia autumnalis* and others of that family. The day of his return was signalized by his nomination for mayor on the Citizens Democratic ticket. We hope to record his election.

Mr. Waarnar, of Van Heemstra & Co., Holland, was a pleasant caller during Easter week, also Mr. Koppers, representing Wm. Hagemann, of Philadelphia. FELIX.

WASHINGTON, D. C.—The *Post* says Florist J. R. Freeman has been robbed by two employes, Richard Scrivener and Frank Hutton. They have been arrested and have confessed.



# WAR PRICES!

Here's a chance for you to buy staple goods and get double value for your money. We must make room for a big line of unmatched novelties soon to arrive, so down go the prices on

WE are cleaning out balance of the season's stock as rapidly as possible.

**American Beauty Vases** in many shapes.  
**China Jardinieres and Ferneries**  
**Metal Work and Artificial Flowers**  
**Baskets in great variety.**

JUST RECEIVED  
**New Cape Flowers**

Extra large and extra white. A limited stock only. Heavier invoices are on the way. Prices on application.

ITINERARY OF OUR MR. H. BAYERSDORFER WILL BE NOTED LATER.

SEND FOR LISTS

## H. BAYERSDORFER & CO.

Importers and Manufacturers of  
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50-52-54-56 N. Fourth St., PHILADELPHIA, PA.

ESTABLISHED  
1866

## EMIL STEFFENS

SUCC.<sup>TO</sup> N. STEFFENS.  
AND STEFFENS BROS.



## SMALL GREEN GALAX

For use with...  
VIOLETS

Stiff, wiry stems. Work up beautifully.  
Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000.  
...ADDRESS...

**HARLAN P. KELSEY,**  
1150 Tremont Bldg., - BOSTON, MASS.

## HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

**H. E. HARTFORD'S,** 18 Chapman Place. BOSTON.

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25 N. 4th Street. - PHILADELPHIA, PA.

## BRILLIANT GREEN AND BRONZE GALAX LEAVES,

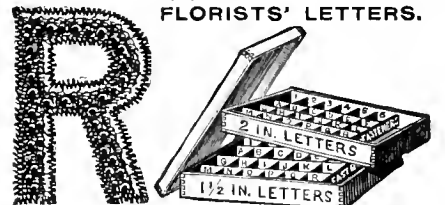
For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

If corresponding with an advertiser at any time, say "saw your ad. in the AMERICAN FLORIST."

## Boston Florist Letter Co.

MANUFACTURERS OF  
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters, \$4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

**N. F. McCARTHY,** Treas. and Manager,  
84 Hawley St., BOSTON, MASS.

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A Complete  
Catalogue for Florists.  
Send for One.

**ELLIS & POLLWORTH**  
MILWAUKEE, WIS.

## John Conley & Son,

Manufacturers of

## TIN FOIL

2 AND 4 DOMINICK STREET,  
New York.

Northampton, Mass.

The third spring exhibition of the Northampton Horticultural Society opened under adverse circumstances, a howling wind and 6" of frost making the moving of plants anything but pleasant, but the big four managed to get up an exhibition which, though somewhat smaller than its predecessors, lacked nothing in quality and compared favorably with previous efforts. As usual, Mr. McGregor was the largest contributor and made a fine display of azaleas, cinerarias and bulbous stock; in carnations his seedlings excited considerable attention and two vases of Eldorado were superb. Clean healthy foliage, long stiff stems and blooms that measured three to three and one-half inches proved that this variety can be grown with good results. Mr. Canning, of the Botanic Garden, made a fine display consisting of marguerites, narcissi, hyacinths, etc. A nice plant of *Tropaeolum tricolorum* occupied a conspicuous position; the narcissi and hyacinths were extra good. Mr. Alex. Parks filled four tables with a well-arranged assortment of azaleas, cytisus, calceolarias, spiraea, etc; he also showed some good blooms of Scott, Tidal Wave, Alaska and a pink sport from Scott, lighter in color, but larger and of better form. The N. L. Hospital made a display of spring flowering plants, including geranium Mars, which several florists pronounce an old variety renamed. On account of the inclemency of the weather, only three amateurs made exhibits of house plants. Let us hope for better luck next time.

G. W. THORNILEY.

ALLENTOWN, PA.—G. A. Ellsworth has moved his flower store from 726 to 522 Hamilton street.

NORWICH, CONN.—Herman Appeldorn, of this city, on Tuesday, purchased the greenhouses, dwelling and barn on Sherman street, New London, heretofore occupied by William E. Pendleton, and will continue the business.

**Beerhorst... & Van Leeuwen**

GROWERS OF... SASSENHEIM, HOLLAND.

**Dutch Bulbs**

AND PLANTS FOR AMERICAN MARKET.

Ask for Wholesale Prices.

We will stay in America until May 15th. Please address letters to:

L. Van Leeuwen,

CARE COLONNADÉ HOTEL,

726 Broadway, - NEW YORK, N. Y.



W. WARNAAR,

Care KNAUTH, NACHOD & KUHNE,

13 William St., NEW YORK.

**VAN HEEMSTRA & CO. BULB GROWERS**

SASSENHEIM, - HOLLAND.

BEFORE ordering Dutch Bulbs ask our quotations. Our stock enables us to make good offers. Address letters until May 15th to:

**VAN ZONNEVELD BROS. & CO. SASSENHEIM, HOLLAND**

HYACINTHS, TULIPS, CROCUS, DAFFODILS, AND OTHER BULBS. ALSO SHRUBS AND PLANTS.

THEY are strictly first-class and cheap. Special quotations for Wholesale Importers... Address all correspondence until May 15th to.....

H. VAN ZONNEVELD

Care J. W. Hampton Jr. & Co., 41 Broadway, New York

*N. Dames*

of the firm of **Vanderhorst & Dames...**

BULB GROWERS

Lisse and Heemstede, Holland,

is on his round trip through the United States. To spare time, we beg to send all letters and communications up to May 15, care of

Knauth Nachod & Kuhne, 13 William St., New York.

Give us the list of your wants and we will send you our lowest quotations for real good stuff.

**BULBS** For FLORISTS., For SEEDSMEN.

**VAN ZANTEN BROTHERS,** HILLEGOM, - HOLLAND.



IMPORTERS

**JAPANESE PLANTS, BULBS, ETC.**

At lowest prices. Small orders filled from experimental garden Columbia Road Dorchester, Mass. Wholesale catalogue, 188¢ free to the trade.

JAPANESE NURSERY,

Office: 272 Boylston St., - BOSTON, MASS

**TO IMPORTERS!**

HAERENS BROS.

From SAMERGAN near Ghent, Belgium

SPECIAL Growers and Exporters of Azaleas, Palms, Araucarias and other decorative plants, take pleasure to inform you that their Mr. AUG. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their New Azaleas will be the favorites of the future. Write for price list and special offer until May 10th.

AUGUST HAERENS CARE OF... VANDERGRIFT CO. 66 Beaver St., New York City.

BEST QUALITY

**Holland Bulbs**

LOWEST PRICES

**JAC. WEZELENBURG**

SASSENHEIM, HOLLAND.

Address up to May 1 in care of KNAUTH, NACHOD & KUHNE, 13 William St., NEW YORK.



# Lilium Longiflorum

## JAPAN GROWN

THE LILY  
TO  
GROW  
FOR  
EASTER  
SALES

The stock of Japan Grown LILIUM LONGIFLORUM which we supplied last season has given excellent results as our many customers who grew them will testify, and we believe it will pay EVERY FLORIST who grows lilies for Easter and summer trade to plant at least one half of his crop with these Japan Longiflorum for the following reasons:

- I. They have shown comparative freedom from disease.
- II. Their good keeping qualities and strong substance of flower.
- III. They can be brought into bloom for Easter if planted in proper season.
- IV. Moderate cost. ❁❁❁

We will be in position to make earliest possible delivery and can now quote advantageous prices.  
Prices of L. Harrissi and all other Forcing Bulbs on application.

CHICAGO:  
84-86 E. Randolph St.

## VAUGHAN'S SEED STORE,

NEW YORK:  
14 Barclay St.

— HEADQUARTERS FOR —

“FANCY” BULB STOCK AT REASONABLE PRICES.

**Are Asparagus Names Meaningless?**

ED. AM. FLORIST: Will you kindly come to the relief of at least one florist who desires very much to know which is what? I ordered a few dozen plants of *Asparagus plumosus nanus* from one of the best companies and was much pleased with them when they came. But now I find a number of them want to get up to the glass, and seem to plead for a good twine to help them. I also sent to another good house for seed of *A. plumosus nanus* and behold an altogether different variety. In the first case I got what I should call *A. plumosus*, the climber; in the latter I got what I should call *A. tenuissimus*, also a climber. In both cases I wanted the pot plant. Now, if *nanus* means anything it means dwarf, or the pot plant. I see *A. plumosus nanus* strings eight to ten feet long advertised, peculiar dwarf surely. I was told by another company that they had ordered from six different houses and each time got mixed plants. I failed to take a good order because I could not assure the party that I had the *nanus*. Surely there is no excuse for this confusion, and dealers should be sure that what they send is exactly what is ordered. Please give us a little light on this subject. St. Cloud, Minn. E. V. CAMPBELL.

Worcester, Mass.

Good weather, plenty of plants and flowers and all the business we could handle, is the Easter story in a nutshell. It is encouraging to note that in spite of the general depression in business and in the face of an impending war, we can report a considerable increase in business compared with that of last year. Contrary to my anticipations, the supply of lilies was fully equal to the demand, the warm and sunny weather helping to get in some late batches that under ordinary circumstances would not have been available.

The biggest demand was for lilies in pots; the call for cut lilies fell off considerably from that of last Easter, and though other flowers sold well, there is an increasing call for plants. Lilies, azaleas, tulips, lilac, both purple and white, lily of the valley, hyacinths and single and double narcissi in pots and pans were in most demand. In cut flowers, carnations, violets and roses, the same old trio, had the call. Everything was in adequate supply, with the exception of carnations and violets, and though we had a good supply of both there was not enough, there is no doubt of the popular opinion of these two favorites in this vicinity.

The fine weather, no heavy wind, facilitated delivering greatly, and this is no small matter when you come to Harrisii lilies in pots, last year's heavy winds and rain being still a disagreeable memory. Lilies retailed at 25 cents per blossom in legitimate circles, the department stores and some of the nurseries selling for 15 and 10 cents for buds, in other lines regular prices prevailed. One peculiar point in the trade this year was that it held off till the last minute. Friday's trade was very light, not at all in comparison to former years but we made up for it on Saturday and of course had to sweat for it doing a week's business in one day is no fun.

In my notes of last week the name of the begonia species should have read John Coulson. A. H. E.

SCRANTON, Pa. J. E. Bullock was arrested on Feb. 24 on a charge of embezzlement from G. P. Clark & Co.

# Areca Lutescens

LARGE HEALTHY STOCK

3 Plants, 6-in. Pot, 24 to 32-in. high, very bushy, each	\$1 00
3 " 7-in. " 32 to 36 " " " "	1 50
3 " 8-in. " 36 to 42 " " " "	2 00
3 " 8-in. " 42 to 48 " " " "	2 50
1 " 10-in. " 4 to 5-ft. high. " " "	5 00

ALL MEASUREMENTS FROM TOP OF POT.

JOSEPH HEAGOGK, WYNCOTE, Phila., Pa.

## PALM

Seed.

FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA . . .	\$1.00	\$7.50	\$20.00
LATANIA BORBONICA . . .	.50	3.00	7.50
KENTIA BELMOREANA . . .	1.00	7.00	20.00
" FORSTERIANA . . .	1.00	7.00	20.00
ASPARAGUS PLUMOSUS NANUS . . .	1.50	12.50	35.00
" CANARIENSIS . . .	1.50	12.50	35.00
" SPRENGERII . . .	1.50	12.50	35.00

**J. L. SCHILLER,**  
404 E. 34th St., NEW YORK CITY.  
Please mention American Florist.

## Crotons...

IN VARIETY

Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Limentia, Androcaum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.

Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz., \$5 per 100.

**Edwin Lonsdale,**  
Florist,  
CHESNUT HILL,  
PHILA., PA.

Money Order Office,  
Station H, Phila.

## Cycas, Palms and Agaves

ONE year, sixty leaves thirty-eight to forty four inches long, six feet diameter, two *Latania Borbonica* six feet high, ten feet diameter; four *Agaves* five feet high, seven to eight feet diameter. All plants healthy, in good tubs.

Lock Box 49,  
WAPPINGERS FALLS, N. Y.

## Just Arrived

IN FINE CONDITION.

ODONTOGLOSSUM CRISPUM,  
MILTONIA ROEZLII, and  
CATTLEYA CHOCOENSIS.

LAGER & HURRELL, Summit, N. J.

**ROBT. CRAIG & SON**

## Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA, PA.

## ASPARAGUS SPRENGERII

For one week (before potting up) we offer small dormant 1-year roots @ \$5.00 per 100. These bulbs will quickly make strong 2 1/2-inch pot plants.

**Ficus Elastica**, true, large leaf variety, 6 inch pots, 20 inches high @ 50¢ each.

**Crimson Rambler Roses**, extra fine, bushy plants, in 4-inch pots, will soon bloom, per dozen, \$2.00, per 100, \$15.00.

**Cycas Revoluta**, dormant stems, size from 3 to 10 lb. @ 15¢ per lb.

**Clothilde Soupert**, the great pot rose, our stock is A No. 1, 2-in. @ \$3.00; 2 1/2-in. @ \$4.00; 3-in. @ \$6.00; 3 1/2-in. @ \$9.00 per 100.

**Dahlias**, 2 1/2-in. pot plants, in named varieties, per 100, \$5.00.

**Pelargonium Mme. Thibaut**, Mrs. Robt. Sandiford, Edward Perkins and Dorothy, strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.

**For Cannas, Carnations, Chrysanthemums**, send us your list; we have all kinds.

**H. P. Roses**, dormant, 2-year, extra fine stock @ \$12.00 per 100.

**Clematis**, *Ampelopsis Veitchii*, Hollyhocks, Paeonies, *Hydrangea P. G.*, etc. we have in large quantities; write us for prices.

**VAUGHAN'S SEED STORE,**  
Greenhouses: CHICAGO:  
Western Springs, Ill. 84-86 Randolph St.

## ...FINE... DECORATIVE PLANTS

**JOHN H. LEY, Good Hope, D. C.**

Solicit early orders for following fine stock:

<b>NEPHROLEPIS, D. Furcans</b>	Each.	Doz.
3 1/4 feet over, full, splendid plants		
50 or more fronds (in pans)	\$2.00	\$18 00
<b>NEPHROLEPIS, S. O. Furcans</b>		
Very large, full of fronds, 3 feet over		
(6-inch pots, fit for 8-inch)	1.00	9 00
<b>NEPHROLEPIS, Bostoniensis</b>		
Same class as above	1.00	9 00
Fine for lining baskets, fronds		
drooping 3 to 4 feet below	2.00	18 00
<b>Lomaria Gibba</b> , 4 inch, very strong		1.00
<b>Pandanus</b> 1 till, 4 inch, very strong		4.00
<b>Nephrolepis Exaltata</b> , 4 in., very strong	\$10 per 100	1 50
<b>Ferns from flats</b> , fine little plants	10 00 per 1000	
100 in 10 sorts mailed as sample for \$1.25.		

## PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST



**GEO. Wittbold**  
1708 N. HALSTED ST.  
CHICAGO

## Rose Hill Nurseries

Largest Growers of Palms, Orchids, Stock and Greenhouse plants, Ferns, Aracaceae, Pandanus.

**SIEBRECHT & SON, New Rochelle, N. Y.**  
New York Office, 409 Fifth Ave.

Syracuse, N. Y.

Our Easter plant trade this year by no means came up to our expectations, and was far from satisfactory to those who make a feature of growing high-grade flowering plants. Never was a finer lot of stock seen in the city, and what caused such an unprecedented poor demand is a mystery. The trade in them during Lent was excellent, far surpassing previous seasons. This naturally led to less stock being wholesaled at Easter, which added greatly to the glut. Azaleas received a severe black eye, and pots and pans of bulbous plants fared not much better; lilies, too, went slowly. One could hardly realize, after a trip through the large stores Saturday evening, that Easter was over, the vacancies on the tables being hardly perceptible.

The only plants that found a ready sale and were sold out clean, were Crimson Rambler and hybrid roses. Ramblers brought from \$3 to \$5 each. A limited quantity of hydrangeas and marguerites also went well. One of the most noticeable features of the trade this year was, that for other than the above named plants, the demand was for cinerarias, white hyacinths, and other small plants such as begonias, etc., that sold from 25c to 75c. Palms were out of the question, and whatever struck the demand for ferneries this year is a conundrum. Last Easter one firm alone sold over one hundred, this year a solitary one. The weather was all that could be desired, both for safe delivery and bringing out a crowd. So far no complaints have been heard of about damaged plants.

Although a decrease in plants, there was a marked increase in the sale of cut flowers, carnations leading, with roses and violets next in order. Lily of the valley and daffodils and other bulbous stock did not sell at all, and the enormous quantity that was grown was a dead loss, other than making a show. The supply of flowers was equal to the demand, and prices ruled about the same as last year. The quality of violets and roses was better than last year; carnations about the same, although there was quite a lot of very inferior stock of the latter shipped in from the east. The report from nearly all sources is that the total sales in money value, were about equal to that of last year.

Visitors in town—Herman C. Bartman, Van Waveren, and H. Van Teylingen. ALPHA.

SAN ANTONIO, TEX.—San Jacinto day, April 21, will be celebrated by a "battle of flowers."

REDUCED PRICES

—Very Fine Rooted—

Carnation Cuttings

Taken from our "Prize" Stock.

MCCOWAN ALASKA ALBERTINI  
HELEN KELLER ARMAZINDY  
DAYBREAK

\$2.00 per 100; \$15.00 per 1000.

SOUTH PARK FLORAL CO., New Castle, Ind.

ROSES, VERBENAS, VIOLETS

Finest Teas and Hybrid Teas, clean, healthy, 10 to 15 inches high ..... \$4.00 per 100  
Verbenas, best colors, 2 1/2 inch pots ..... \$2.00 per 100  
Violets, California, well rooted ..... 1.50 per 100  
Calla Lilies, 5 and 6 inch pots ..... 10.00 per 100

Invariably at these prices.

Cash with Order. F. WALKER & CO.  
Box 316, New Albany, Ind.

Chrysanthemum Mrs. A. F. Wienold

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Bergmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2 1/2-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

CAL. VIOLETS. No disease. Strong runners. 50c per 100; \$4 per 1000. McDONALD & STEELE, Crawfordsville, Ind.

Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

CARNATIONS FROM SOIL

Cathlene Pantlind, \$10 per 100. \* Flora Hill, \$5 per 100.  
Beauties, 2 1-2 in., \$6 per 100. Carnots, 2 1-2 in., \$4 per 100.

HOPP & LEMKE, Paul P. O. E. Grand Rapids, Mich.

To Make Room

Aster Plants ..... @ 60c per 100 or \$5.00 per 1000  
Pansies, small transplanted plants, 60c per 100 or \$3.00 per 1000.  
Salvia Clara Bedman, 2 1/4-in. Pots ..... \$1.50 per 100  
Feverfew Little Gem, " ..... \$1.50 per 100  
Lycopodium Denticulatum, 2 1/4-in. Pots, ... 1.50 per 100  
Althorpianthera aurea nana and P. major, 2 1/4-in. Pots, \$1.50 per 100.  
Strong, R. C. Carnations, 20 varieties. Send for price list. Above stock is unusually strong and grown cool.

The Morris Floral Co., MORRIS, ILL.

ALBA SUPERBA

The Gardenia Carnation.

Plants Now Ready \* \$10.00 per 100  
60.00 per 1000

JOHN BURTON,  
Chestnut Hill, PHILADELPHIA, PA.  
Please mention the American Florist

Flora Hill

AND 25 OTHER VARIETIES, LOW TO CLOSE OUT. ....

GRAFTED TEA ROSES, \$15 per hundred.

H. F. LITTLEFIELD, Worcester, Mass.

20,000 CHRYSANTHEMUMS.

2 1/2-inch pots.  
Major Bonnaillon, \$2.00 per 100 or \$15.00 per 1000; President Smith, Eda Prass, \$1.50 per 100 or \$12.00 per 1000.  
Ceraniums—the best mixed varieties for budding, 3 1/2-inch pots, showing buds, \$2.50 per 100 or \$18.00 per 1000; 2 1/2-inch pots, \$2.00 per 100 or \$15.00 per 1000. Cash with order or satisfactory reference.

PAXTON GREENHOUSES,  
C. E. Taube, Prop. Harrisburg, Pa.

SWELL YOUR BANK ACCOUNT

By growing Emily Pierson Carnations, the most profitable Red Carnation in cultivation. Clean healthy grower, large full flowers with fine stem. Our house, 70x20 feet, from which we have been cutting since September, has 20,000 buds in sight to-day. We can supply fine rooted cuttings at \$1.00 per 100; \$8.00 per 1000. Cash with order.

South Side Floral Co., Springfield, Ill.

New CARNATIONS.

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.

Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

MRS. C. H. PEIRCE—Yellow.  
35c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
50c each, \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898.

F. DORNER & SONS CO.  
LAFAYETTE, IND.

NATHAN SMITH & SON

Wholesale Florists

Specialties. \* \* \* \* \* ADRIAN, MICH.

CHRYSANTHEMUMS

CARNATIONS \* \* \* \* \*

AND VIOLETS \* \* \* \* \*

... CORRESPONDENCE SOLICITED ...

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

CHAS. CHADWICK,  
Lock Box II. GRAND RAPIDS, MICH.

**Pittsburg.**

The florists of Pittsburg and Allegheny are extremely well pleased with the business transacted at Easter, all having done considerably more than last year or the year before, in fact many of them had all they could do, even with a greatly increased force of help to fill their orders, and fortunately the supply of flowers was abundantly large, consequently the consumer and dealer were alike satisfied. Prices were generally above the regular rates prevailing previously, but were not raised so high as to prevent the development of a very greatly increased demand. The call for palms and genistas was noticeably less than in former years; lilies and hyacinths in pots much larger; other plants about the usual demand. Since Easter trade has been fairly good, there is nothing to complain about.

In my notes published October 23, 1897, reference was made to a report received from Holland that Mr. P. Vos, of Sassenheim, had failed in business. His many friends in this country will be greatly pleased to learn that such was not the case; a document from the recorder of the District Court of Justice at the Hague certifies that the firm of P. Vos & Co. had never been declared by said court to be in a state of bankruptcy. This is certainly indisputable evidence that the report received last fall was erroneous, and it affords me great satisfaction to have it corrected in a way that can leave no doubt about the standing of Messrs. P. Vos & Co.

E. C. Ludwig, Allegheny, reports business good, and especially so at Easter; he increased the number of hands for that time to more than quadruple the number usually employed, and then the entire staff had all they could do to finish everything complete. Chas. Camp, Mr. Ludwig's right-hand man, is confined to the house this week by sickness. Elliott & Uam, Pittsburg, also have a good report of Easter business, it being the greatest in amount they have ever had, and they are correspondingly happy.

Gustave Ludwig, Allegheny, has been very busy for some time, and his Easter business was nearly double that of last year. In funeral work he had a very extra piece last week - Lieut. Jenkins, of the ill-fated warship Maine, was buried here (his birthplace) and Mr. Ludwig furnished a floral design of the ship. It

was seven feet on the water part, the boat itself being over five feet in length; the base was made of ivy leaves and white roses, and the hull of pink carnations; the explosion was represented by red sprays, the fire and smoke by red carnations and black immortelles, the whole

requiring the united work of eight persons for more than a night to complete it, and when done it was a most excellent representation of the Maine.

Mr. F. W. O. Schmitz, of Jersey City, N. J., was a visitor this week; he reports trade good. REGIA.

**PRICE LIST of rooted cuttings of New Carnation**

**GENESEE**

NOW READY.

1 dozen or up, prepaid by mail or express.....	\$ 1.35
25 or up (to 100) " " " " .....	10.00 per 100
100 " purchaser paying charges.....	8.00 per 100
250 " " " " .....	7.00 per 100
500 " " " " .....	6.75 per 100
1,000 " " " " .....	65.00 per 1000

Descriptive illustrated and priced circular free.

**DAN'L B. LONG, Sales Agent, Buffalo, N. Y.**

**Flora Hill**

**CARNATION**

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. **It is fragrant. It is the largest bloom.** It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

**E. G. HILL & CO., = Richmond, Ind.**

**EMPRESS THE RICH NEW GRIMSON**

Perfection in color; always in demand. Good stock now ready. \$10.00 per 100; \$75.00 per 1000; or \$2.00 per doz. Strong plants from soil. All the leading varieties.

**GEO. HANCOCK & SON, GRAND HAVEN, MICH.**

**NEW CARNATION...**

The largest, bright rich crimson yet introduced.

**Empress**

Send for price list of above, New and Standard Sorts....

**WM. SWAYNE, Box 226, Kennett Square, Pa.**

**\$300 CARNATION PRIZE**

See half page ad. in issue of March 26th. Send for our circular.

**AMERICAN ROSE COMPANY, Box 422 WASHINGTON, D. C.**

**Carnations Chrysanthemums**

NEW AND STANDARD VARIETIES

Our new Trade List will inform the leading florists of 1898 and 1899 as well as the best standard sorts. Address

**H. WEBER & SONS, - Oakland, Md.**

**NEW CARNATION ARGYLE**

A few left at the following price \$4.00 per 100, \$75.00 per 1000....

**STOLLERY BROS.**

ARGYLE PARK, - CHICAGO, ILL.

**Experiences**

... WITH ...

**CARNATIONS**

The next number ready March 1, will be cultural as well as descriptive, and sent free to all applicants. I Guarantee all cuttings sent out and offer a Special Guarantee to all buyers of Flora Hill and Triumph.

**ALBERT M. HERR,**

LANCASTER, PA

**THE BEST OF THE NEW PINK CARNATIONS**

**Mrs. Frances Joost.**

A WINNER EVERYWHERE.

\$2.00 per dozen \$10.00 per 100 \$75.00 per 1000. Cash with order.

**C. BESOLD, Mineola, L. I., N. Y.**



# April Offer.

Per 100  
 Alternanthera A. Nana, \$1.75; P. Major.....\$2.00  
 Begonias, 5 var.—Vernon..... 2.50  
 Coleus Asst. and Centaurea Gymnocarpa.... 2.00  
 Geraniums, 16 Var.. 2½-in. pots, \$2.50; 3-in.. 3.75  
 Geraniums, 4-in. pots and Marguerites (Paris  
 Daisy)..... 5.00  
 Pansy plants from cold frames and Smilax.... 1.00

CASH PLEASE.

JOS. H. CUNNINGHAM, Delaware, Ohio.

## Geranium "Mars"

Special Certificate of Merit.

The best selling, most floriferous and dwarfed Geraniums ever introduced.....

—FOR SALE BY—

HENRY A. DREER, Philadelphia, Pa.  
 F. R. PIERSON CO., Tarrytown, N. Y.  
 J. C. VAUGHAN, Chicago, Ill.  
 COTTAGE GARDENS, New York.  
 AND THE INTRODUCER  
 HENRY EICHHOLZ, - Waynesboro, Pa.  
 FRANKLIN CO.

## PANSIES

WE grow over a million from the choicest seeds of Hugnot, Cassier, Odier and Truardon, transplanted last November in cold frames; large plants now ready to bloom, 60¢ per 100; \$4.00 per 1000; Mammoth Verbenas, 70¢ per 100; \$5.50 per 1000; Double Geraniums, in bud and bloom, such as S. A. Nutt, Gen'l Grant, La Favorite and many others, equally as good, 4-inch, \$6.00 per 100, 3-in., \$4.00 per 100.

FUCHSIAS, very branched, loaded with bloom, 4-inch, \$10.00 per 100. 3-inch, \$5.00 per 100.  
 HELIOTROPE, 4-inch, \$6.00 per 100.  
 VINCAS, extra heavy, 4-inch, \$8.00 per 100.

All the above are very bushy and well branched.

## WHITTON & SONS.

Wholesale Florists,

City and Green Sts., UTICA, N. Y.

## COLEUS

Rooted Cuttings Well Rooted...

Scarlet Verschaffeltii, Golden Verschaffeltii, Fire King, Fire Brand, Tam O'Shanter, S. P. Gem, Alhambra, Golden Crown, Midnight, Salvator, John Goode, Nigger, 15¢ per doz.; 75¢ per 100; \$5 per 1000; express paid.

S. T. DANLEY, Macomb, Ill.

**The Cottage Gardens**  
 QUEENS, L.I.  
 Specialties in CARNATIONS, CHRYSANTHEMUMS,  
 CANNAS, GERANIUMS, DAHLIAS.  
 SEND FOR OUR PRICE LIST

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## American Florist

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THE JENNINGS STRAIN. THEY ARE GRAND.

Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75¢ by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.

E. B. JENNINGS,

Lock Box 254. SOUTHPORT, CONN.  
 Grower of the Finest Pansies.

## 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75¢ per 100; \$6.00 per 1000; \$50 per 10000.

NO RUST OR MILDEW.

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4-inch Paper Pots, in Bloom.

PINK, RED and WHITE  
 Best Bedders. . . Thousands Ready.

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Rooted Runners, \$4 per 1000.

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Fine plants with 10 to 30 blooms per plant. 10 cents per bloom....

JOHN SCOTT, Keap St. Greenhouses,  
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Well rooted out propagating bed...  
 Make us an offer for same....

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A. C. OELSCHIG,  
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## ASTER GIANT WHITE COMET

Pure white. Trade pkt., 25¢; oz., \$2.00; fine mixed, oz., \$1.75; tall Victoria, white, dark blue and pink, trade pkt., 25¢; oz., \$2.00; fine mixed, oz., \$1.75. All the other seeds at market prices; trade list and sample on application.

H. BEAULIEU, Woodhaven, Q. B., New York.

## FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,

Lock Box 1528. BOSTON, MASS.

Correspondence solicited.

## SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.  
 CARNATIONS, for fall delivery.  
 CHRYSANTHEMUMS.  
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 VIOLETS.

Prices low. Send for list.

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Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00  
 Strong, 2nd and 3 years  
 own roots.....\$1.50 \$10.00  
 RED JACKET GOOSEBERRY, only large native red..... 75¢ \$4.00

DOWNING, best for general crop, special prices.  
 PAEONIES, fine ass't of colors and kinds \$1.25 \$8.00  
 SMILAX, extra strong plants..... \$2.50

F. A. BALLER, Bloomington, Ill.

## KLONDIKE

Cold Fields at Your Door.

COLEUS—All kinds, all grades and all prices. Verschaffeltii and Queen, 75¢ per 100; \$6.00 per 1000; 2½-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 35¢ per 100; \$4.50 per 1000; 2½-inch pot, \$12.00 per 1000; \$1.50 per 100. Alternanthera dwarf blue, 60¢ per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 1000; \$1.50 per 100. Anthemis Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 60¢ per 100. Helianthus Multiflorus, Double Golden, 2½-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2½-inch pots, \$2.50 per 100; Mme Sallerot, for flats, \$1.25 per 100; \$10.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.  
 The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.

## CARNATIONS AND COLEUS

### ROOTED CUTTINGS

THE 1898 INTRODUCTIONS  
 THE 1897 INTRODUCTIONS

DAYBREAK of special quality.  
 ROOTED COLEUS in variety.  
 Good stock only. Price list free.

DAN'L B. LONG, Growers' Agent,  
 BUFFALO.

## 5,000 SMILAX...

From flats, by mail, 50¢ per 100, \$4.00 per 1000  
 From 2-inch pots, \$2.25 per 100, \$18.00 per 1000  
 Geraniums from 2-inch pot, \$2.25 per 100;  
 \$20.00 per 1000. Cash with the order. Send for samples. Fred Boerner, CAPE MAY CITY, N. J.

PRICES GREATLY REDUCED

## Cape Cod Pink Pond Lily

For price lists, Plants and Cut Flowers, address the original cultivators.....

CHIPMAN BROS.

SANDWICH, (CAPE COD), MASS.

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## VEGETABLE PLANTS

LETTUCE—Big Boston, Boston Market, Tennis Bull, Grand Rapids and Reicher's Forcing. 15 cts. per 100; \$1.00 per 1000

TOMATO, CABBAGE and CELERY—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.

Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.

CAULIFLOWER, Snowball—35 cts per 100; \$2.50 per 1000; If by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.

## St. Louis.

**SPLENDID INCREASE IN EASTER BUSINESS IS REPORTED.—ROSES SOLD WELL.—WHAT F. G. UDE, OF KIRKWOOD, IS DOING.—NEW THINGS FROM MISSOURI.**

Easter has come, and with its departure it has left many tired but happy florists; the reports from almost all persons interviewed are that business was of a very satisfactory nature, the increase reported being from one-quarter to one-half as much again as last season. The weather, to make up for its disagreeableness during the opening week of April, was perfect on Easter Sunday and the two days preceding.

Plants more than held their own in the competition with cut flowers as suitable presents, and the way in which they were cleaned up should encourage the growing of them more generally for this occasion. A very marked difference was noted in the demand for stock in the different sections of the city. The downtown stores handled about the usual quantity of plants, but noted a heavy increase in the call for cut flowers, while the west end stores increased most heavily in the plant trade. Prices ruled about as usual, that is usual Easter prices, and no objections were heard to the amounts asked for goods, parties wishing to purchase apparently being able and willing to pay.

Stock was in fair supply, nothing having been left on hand except white carnations, which were too abundant. Roses of all kinds cleaned up readily, likewise colored carnations, and Harrisii lilies, as reported, were in rather short supply; more could have been used had they been obtainable. Despite the warm weather bulbous stock was everywhere, and large quantities of it were moved, at a low figure, however; 3 cents for Von Sions, 3 cents for Romans, 3 and 4 cents for lily of the valley. Pickled stock also was in evidence, not so much from the home growers as from out-of-town points. While not abundant there was enough of it to make the recipients very sore on the shippers. Prices had held up well preceding Easter and good returns would have been made had the stock been sent in when due; it is however getting to be the usual custom for prices to remain unpreceding an occasion of this kind, and maybe in the future the disadvantages of discarding a good price with the chance of a better one or total loss a few days later will force itself upon growers. Since Easter cool wet weather has again put in an appearance, and has had a tendency to quiet what little trade was doing. Weddings, however, are all the talk, and from the engagements announced they should keep the florists going until the school commencements.

F. G. Ude, of Kirkwood, is cutting fine carnations, Daybreak, Jubilee, and others, he is convinced that there are two strains of Armazindy carnations on the market, as those of that variety he grows are distinct from it as seen elsewhere; the opinion has been advanced that his variation, if we may call it so, is caused by the soil and cultivation; cuttings, however, taken from plants foreign to his place, rooted and grown in the same manner and soil as his, still show a pronounced dissimilarity in habit of growth and color of foliage—the companionship will be continued when planting time comes to see if the variation is permanent. A novelty upon which a good many jokes are made and from which much is expected is a white sport from Daybreak, a little larger and a stronger grower than the latter. Anyone knowing Mr. Ude and his careful methods can be sure that it is a white Daybreak and nothing else. Stock is

being worked up and quite a nice batch is expected to be ready for planting in the houses next fall. Upon some 2-inch plants of Victor recently received from the east more rust and disease were noted than upon the 8,000 home grown, Jubilee and Uncle John included. Herman Ude was busy putting a tank on a tower with the assistance of Theodore Richter, another carnationist. Herman pinned his faith to California violets last season, and as a result is putting up water works, and is to rebuild one of his old houses. When asked about the newer varieties of violets he said: "California is good enough for me." Quite a patch of sweet peas sown in the open ground last fall were an inch or two out of the soil. Our last freeze hurt them to some extent, but not more than they will outgrow. Farquhar was tried here some time ago, the first year of its introduction, and proved identical with Marie Louise. The seller must have had his stock badly mixed, or did the packer take stock from the wrong side of a label.

Charley Ude was also "in it" with California last season, and is about to build a duplicate of the house erected last season for carnations and violets. Carnations here were showing up well, particularly Silver Spray and Portia. At present writing a light frost is predicted for to-night; should it be heavy, considerable damage will be inflicted upon fruit, which is well advanced.

The directors of the Exposition Association have accepted the terms proposed by the exhibition committee for the use of the Coliseum for the next flower show. This insures our having an ample opportunity to show what can be done in the way of having a properly arranged and managed exhibition. Owing, however, to the horse show management having the dates desired by the club it will be held one week later, from the 15th to the 19th. Being a week later than the general run of shows throughout the country, it is expected that outside parties will be

much better represented than heretofore.

The Lindell Flower Store, situated under the Lindell Hotel, has closed. R. F. T.

## Nashville, Tenn.

The Easter trade was a surprise even to florists themselves in this city. The indications early promised an unusual volume of business, nor were they disappointing. I venture the assertion that more flowers were sold in the three days, including Easter Sunday, than were ever sold on any similar occasion in this city. The call was for cut flowers largely, with a good demand for potted plants. Easter lilies were in great demand, and the supply was exhausted long before night on Saturday.

There was fully 50% increase on sales over last year. The supply was abundant and of good quality. Home-grown stock was plentiful, and commanded fair prices, though there was no excessive price on anything. Roses, good stock, sold at \$1.80 to \$2 per dozen, American Beauty went from \$4 to \$6. Other prices were in proportion. Easter lilies were in good supply considering the very late date, and at first sales seemed doubtful, but everything was taken, and numbers of calls could not be supplied at the last. There was a large lot of shipped stock sold here, the quality excellent and prices good.

Taken all in all, the Easter trade was very satisfactory, and florists were ready to shut up and go home by 2 p. m., at which time a heavy shower came on, but the dealer had already gotten in his work and sold out his stock.

M. C. DORRIS.

OTTAWA, CAN.—Mr. James Hickey's conservatories, on Bank street, were unfortunately burned April 2. The loss on the building is perhaps \$100, but the loss through destroyed plants will be very great.

# Roses! Roses! Roses!

Extra fine selected stock of all the leading varieties.

Bride, Bridesmaid, Catherine Mermet, Madame Hoste, Mrs. Pierpont Morgan, Perle des Jardins, Meteor, at \$5.00 per 100. La France, Kaiserin Augusta Victoria, Mrs. W. C. Whitney, Souvenir de Wootton, Madame Caroline Testout and Pres. Carnot at \$5.50 per 100. Clara Watson and American Beauty at \$8.00 per 100. \* \* \* \* \*

WRITE FOR SPECIAL PRICES FOR LARGE QUANTITIES.

**JOHN N. MAY, - Summit, New Jersey.**

## ROSES...

PERLES	}	Pots 100	Pots 100
METEORS		2 1/2	\$2 50
BRIDESMAID		3	\$3 50
BRIDE			

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

## 300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pei, Climb. Wootton, Pres Carnot and 100 other leaders in Teas, H. Teas and Climbers. Moon Vines, \$2 50 per 100.

Send for prices

**The National Plant Company, Dayton, Ohio.**

## NEW FORCING ROSE MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$5.00 per 100 in lots less than 1000, \$25.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

New Haven, Conn.

The uncertain March weather which ushered in the beginning of the week preceding Easter boded ill to flowers and florists in this locality. But after a small-sized blizzard on Tuesday and a slight fall of snow on Wednesday, the elements took on a better temper, and the latter part of the week was all that could be desired. With the pleasant condition of the weather the florists' hopes arose, and the trade was fully up to the standard of last year.

Many merchants made special displays. S. H. Moore & Co., J. N. Champion & Co., Robt. Veitch & Sons, and F. S. Platt all had extra space, where displays were made. All report trade as good, despite drawbacks in the way of war gossip, etc.

Potted plants, as is usual at Easter, were in large demand. Novelties in this line were many and unique. Japanese fern balls attracted much attention and sold readily. Among the newest things were lilac plants of small, sturdy growth in full blossom, and the Palmer violet plants, sold by Champion & Co., both of which went quickly, and of which the supply was insufficient.

S. H. Moore & Co. had a very attractive window of Scotch heather plants of small size and stocky growth and sold many of them.

Carnations were high in price, going up from 35 cents to 75 cents and \$1 a dozen. Even at this price, the highest these flowers have brought since last Easter, the demand exceeded the supply. The figure on violets remained without any increase, but sold in plenty at \$1.50 per hundred. Roses were by no means short in supply. Jacqs. sold for \$4 a dozen, Brides and Bridesmaids at \$3. Beauties were scarce at \$12. Among the potted plants, azaleas followed close upon the Easter lilies, and were exceptionally good. They brought from \$1 to \$4 each. The demand for tulips was good. Daffodils went more slowly.

J. A. P.

### MUST HAVE ROOM

**CERANIUMS**—10,000 S. A. Nutt, 2 1/2-in. \$15.00 per 1000; \$2.00 per 100. Rooted Cuttings from soil, \$10.00 per 1000; \$1.50 per 100. Mixed standard varieties same price. Mme. Bruant, 2-in. \$3.00 per 100.

**BEGONIA Vernon**, 2-in. \$2.00 per 100  
**CARNATION Lizzie McCowan**, soil or pots, \$10.00 per 1000. Cash please.

**CARL HAGENBURGER**, West Mentor, Ohio.

### Double Hollyhocks

Fine plants, one-year-old, grown from best seed. ...

**Pansy Plants** Large flowering kinds.

**Verbenas, Carnations** and other stock.

Send for Price List.

**S. W. PIKE, St. Charles, Ill.**

### Violet Plants...

Marie Louise

Strong healthy rooted runners, \$ 6.00 per 1000  
Sand struck cuttings, 10.00 per 1000  
Grower of One Million Violets. Cash with order to be filled when purchaser desires....

**GEORGE SALTFOORD**, Rhinebeck, N. Y.

### Write for Prices

of Beauties, Meteors, Belle Siebrecht, Perles, Maids and Brides in 2-in. same varieties and La France and V. Kaiserin in 3-inch. Smilax in 2-inch. If samples are wanted send 50c in stamps.

**GEO. A. KUHLE**, PEKIN, ILL.

When corresponding with advertisers, mention the AMERICAN FLORIST.

**DOUBLE PETUNIA**, Dreer's strain, strong..... **\$2.50**

**RUSSELLIA JUNCEA**, 2 1/2-in., strong **3.00**

**AMPELOPSIS VEITCHII**, 2 1/2-in..... **2.50**

**PALM Latania Borbonica**, 2 1/2-inch, 3 to 4 leaves, per 1000, **\$40.00, 4.50**

**THOS. A. McBETH**, Springfield, O.

### EXTRA FINE ROOTED CUTTINGS BY MAIL.

**Ageratum**—Morton's Perfection Mexleanum, 75 cts. per 100. **Coleus**—10 standard named varieties, mixed, 60 cts. per 100; \$5.00 per 1000. **Carnations**—Eldorado and Mrs. Fisher, \$1.00 per 100; \$8.00 per 1000. **Daisies**—Marguerite, yellow and white, \$1.00 per 100. **Fuchsias**—7 leading varieties, 75 cts. per 100. **Ceraniums**—10 standard bedders, \$1.00 per 100; \$9.00 per 1000. **Heliotrope**—Best always blooming, M. Bryant, \$1.00 per 100. **Swainsona**—Alba Perfecta, \$1.00 per 100. **Salvia Splendens**—Alba, Yellow Bird and Purple, 75 cts. per 100. **Violets**—Marie Louise and Lady Campbell. Flowers from same marked XX, 80 cts. per 100; \$7.00 per 1000. Will trade any of the above for Vinca Variegata, Daybreak Carnations or Rex Begonias.

**MILLBROOK LEA GREEN HOUSES**, WHITFORD, PA.

**CRIMSON RAMBLER** } Strong, dormant,  
**YELLOW RAMBLER** } field-grown plants 2 to 3 feet high.

Price \$1.75 per 10; \$15 per 100. Write for list of other stock. **Roses, Shrubs, Currants, Fruit Trees, &c.**

**Jackson & Perkins Co.** NEWARK, NEW YORK.

### SURPLUS STOCK

3000 Red and Yellow Alternanthera in 2 1/2-in. pots and well-colored, fine plants, \$1.00 per 100, or \$8 per 1000.....  
75 Alocasia Odora, 4-inch pots, good strong plants, 10c each. Cash with order. Address....

**J. F. BROWN, FLORIST**, Care S. & S. Home. Lock Box 5. Knightsdown, Ind.

### HARDY PINKS

2 1/2-in. pots; Sony de Sale, \$3.50 per 100; Her Majesty, Glen Valley, Laura Wilmer, Gertrude, \$3.00 per 100.

### VIOLETS...

2 1/2-in. pots; Admiral Avellon, Princess of Wales, \$3.50 per 100; Luxonne, California, Campbell, Swanley White, \$3.00 per 100.

**THE CONARD & JONES CO.**, West Grove, Pa.

**Surplus Stock**  
Can be disposed of by advertising. Try it....  
This Size "Ad." Costs Only \$1.00.  
AMERICAN FLORIST Co., CHICAGO.

### ROSES OWN ROOTS, DORMANT, FIELD GROWN

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet  
Yellow Rambler (Aglaiia)  
Hybrid Perpetuals,  
Mosses, Hardy Climbers  
and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager,**

1308-1310 Unity Bldg., - CHICAGO, ILLS.

### AM. BEAUTY

I have a nice stock for early planting; 3-in. pots, \$6.00 per 100; 4-in. pots, extra strong, \$10.00 per 100; a few 5-in., \$13.00 per 100. California Violets, extra large clumps, \$5.00 per 100, will divide up into 10 to 15 plants. Austrian Cannas, strong plants @ 2c.

**W. W. COLES, Kokomo, Ind.**

### CANNAS NEW AMERICAN Finest in the World Our Novelties for 1898

**DUKE OF MARLBORO**, darkest crimson, \$30.00  
**DUCHESS OF MARLBORO**, only pure pink, 30.00  
**TOPAZ**, only absolutely large pure yellow, 50.00  
**LORRAINE**, pink, edged white, fine, 30.00  
**MAIDENS BLUSH**, delicate flesh color, 15.00  
**GOLDEN EGG**, yellow, nearly double, 30.00  
**CUBA**, finest and largest gilt edged, 40.00  
**GLORIOSA**, very dwarf, March delivery, 12.50  
**PHILADELPHIA**, glowing crimson, 15.00  
**CHAMPION**, largest, glowing scarlet, \$5.00 each  
**KLONDIKE**, only large pure orange, \$2.50  
Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

**OUR CANNAS IN FRANCE.**  
To Messrs A. Blanc & Co.  
Your new catalog of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Glant Crimson, etc. Signed CH. MOLIN, Lyon, France, Jan. 3, 1898.

**ASPARAGUS SPRENGERI**  
Fine plants in 6-inch pots, ready for 8-inch, \$5 per 12.

**AMARYLLIS....**  
Vetrot's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

**CALLAS**  
Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each.

**DAHLIAS**  
11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, GILT EDGE, \$15 per 100. Send for special list.

**A. BLANC & CO., Philadelphia, Pa.**

**Cannas** Best leading varieties including Burbank, Italia, Austrian and Charlotte, \$3.50 per 100.

**Geraniums** Single and double such as A. Ricard, Bruant, Paid herbe, Simmons, La Favorite, Nutt, Mme. Chas. Teas, E. G. Hill, Madonna, Pages, Mrs. Blanc, Poitevine and other good varieties, 2 1/2 in. strong, \$2.50 per 100, \$15.00 per 1000; 4-in. pots in bud and bloom, \$5.00 and \$6.00 per 100.

**Begonia Vernon**, 2 1/2-inch pots, \$2.50 per 100.

**Salvias, Latanias, Double Petunias, Pileas, Vinca Major and Harrisii; Fuchsias**, single and double, 2 1/2-inch pots, \$2.50 per 100.

**Perennial Phlox** in variety, including Miss Lingard; field-grown clumps per 100, \$5.00; pot grown, \$3.00 per 100; also Rudbeckia Golden Glow, Coreopsis Harvest Moon, pot grown, \$5.00 per 100. Cash with order.

### Wanted in Exchange...

200 each of Lady H. Campbell and Marie Louise Violets; good young Roses, Pink La France, Kaiserin, Mme. Cochet, Clothilde, Souperet, Hermosa, or others.

**C. G. NANZ**, OWENSBORO, KY.

### ROSES From 3-inch Pots.

**BRIDES** ..... \$3.50 per 100; \$30.00 per 1000  
**BRIDESMAID** ..... \$3.50 per 100; \$30.00 per 1000  
**PERLES** ..... \$3.75 per 100; \$35.00 per 1000  
**METEORS** ..... \$3.75 per 100; \$35.00 per 1000  
**AMERICAN BEAUTIES** ..... \$6.00 per 100

### Carnation Cuttings

Strong and healthy from flats.

**L. McGOWAN** ..... \$1.00 per 100; \$8.00 per 1000  
**EMILY PIERSON** ..... \$1.00 per 100; \$8.00 per 1000  
Strong Healthy Stock. Cash with Order.

**MAGNUSON & PEARSON**, BOWMANVILLE, STATION X, CHICAGO.

### ROSES..

2-in. per 100 3-in. per 100  
**Am. Beauties** .. \$5.00  
**Perle** ..... \$2.75 4.50  
**Bridesmaid** ... 2.75 4.50

**MAPLEWOOD CUT FLOWER and PLANT CO.** PLEASANT HILL, MO.

Catalogues Received.

Isaac Hicks & Son, Westbury Station, N. Y., trees, shrubs, vines, flowers and fruits; Valentine Burgevin's Sons, Kingston, N. Y., trees, plants, vines and shrubs; Richard Vincent, Jr. & Son, White Marsh, Md., vegetables and plants; Peter Lambert, Trier (St. Marien), Germany, shrubs and plants; The Holland Bulb Co., Oegstgeest, Holland, bulbs, roots and plants; Elm City Nursery Co., Edgewood, New Haven, Conn., trees, shrubs, vines and fruits; V. Lemoine & Son, Nancy, France, plants; J. N. Kidd, St. Joseph, Mo., plants, seeds and bulbs; P. S. Peterson & Son, 164 La Salle St., Chicago, Ill., trees, shrubs, vines, plants and fruits; Horace Rimby, Collegeville, Pa., plants, seeds and bulbs; Vance Boiler Works, Geneva, N. Y., heating apparatus.

THE MALTESE CROSS BRAND THE VERY BEST OF GARDEN & LAWN HOSE TRADE MARK if your dealer does not have it send direct to the manufacturers 35 Warren Street. The Gutta Percha & Rubber Mfg. Co. 96 Lake Street. NEW YORK. CHICAGO.

Kraft's Plant Tonic

For Plants, Palms and Flowers

A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale.....

The Tonic makes the foliage of the plant soft and pliable and a beautiful bright green. For sale at.....

84 & 86 RANDOLPH STREET, CHICAGO.

VAUGHAN'S SEED STORE,

14 BARCLAY STREET, NEW YORK.

THE MODEL EXTENSION CARNATION SUPPORT



QUEENS N. Y., Feb. 16, '97. MR. THERON PARKER, Brooklyn, N. Y., Dear Sir: I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied and I think will prove very durable, and you certainly deserve great credit for the invention. Very truly yours, C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97. MR. THERON PARKER, Dear Sir - Your wire stake is certainly a gem. Without hesitating we endorse it as an up-to-date carnation support. Yours truly, DAILEDORFZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97. MR. THERON PARKER, Brooklyn, N. Y., Dear Sir: - It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am Yours truly, E. ASHES.

Write for price list and discount on early orders. THERON PARKER, 22 Morlon St. BROOKLYN, N. Y.

Scollay Sprinkler... INDISPENSABLE I. A. Scollay, Maker, 71 Myrtle Ave Brooklyn, N. Y. VAUGHAN'S SEED STORE, Gen'l Western Agents, 84 Randolph St., CHICAGO.

Cocoa Nut Fibre HAS COME TO STAY ON ITS ..... MERITS. THE SALEM COCOA NUT FIBRE CO. Will ship to any part of the country at \$9.00 per ton F. O. B. at Salem, Mass. W. S. WARD, Mgr., Office: Federal Street, SALEM, MASS.

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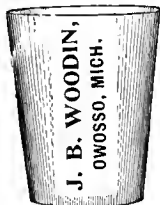
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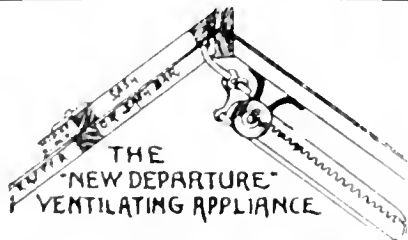
If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.  
**W. H. ERNEST,**  
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Cleveland.

Easter week is over, and with satisfactory returns to nearly everybody. From general reports it appears to have been fully as good as usual, and with some florists an improvement over any previous Easter. The stores were all very busy, and on the markets no complaint is heard, so it is fair to presume that all are well satisfied.

There was a good call for flowering plants, lilies and azaleas leading as usual in the popular estimation. Of the latter plant there seems to have been enough to supply the demand, with possibly a slight surplus in large sizes, but not much. Lilies were in many cases not up to the best standard as pot plants. They were usually too tall, a very general trouble with *Harrisii* this year, and one apparently not necessarily the result of bad culture. There was also in some cases evidence of the omnipresent lily disease. The plants sold very well, however, and nobody complains much. Dutch bulbs sold about as usual, those who had been conservative in estimating their Easter needs selling out. Nobody appears to have had much stock left over, although there are some reports of slight surplus.

In cut flowers lilies of course were a prominent feature and sold well at from \$2 to \$3 per dozen, according to quality. Carnations were generally in short supply, although two report a sufficient number but nothing over. Some did not have half enough to supply the call for them. Violets also were generally short in supply. Roses were excellent in quality, and there seems to have been enough to fill orders for them. One great factor in the satisfactory result was undoubtedly the weather. It had been persistently cold, nasty, windy and generally disagreeable until Thursday, when it moderated and became very pleasant. Saturday was cloudy, with a very slight rainfall for a short time in the afternoon, but as there was absolutely no wind and the rain seemed to lay the dust that otherwise might have been troublesome, there is no good reason to object. A.



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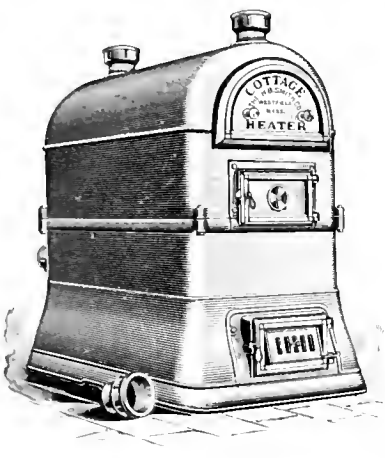
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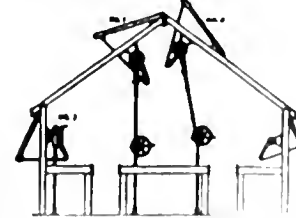
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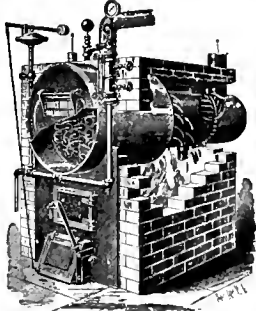
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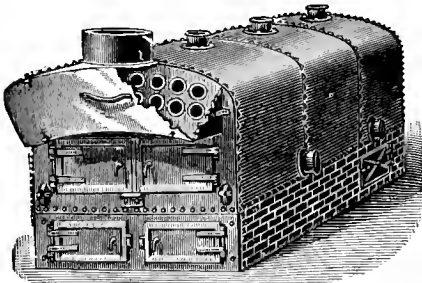
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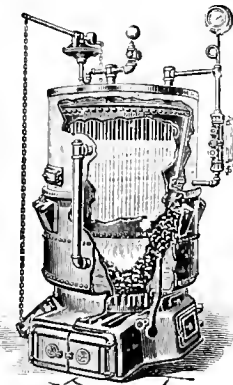
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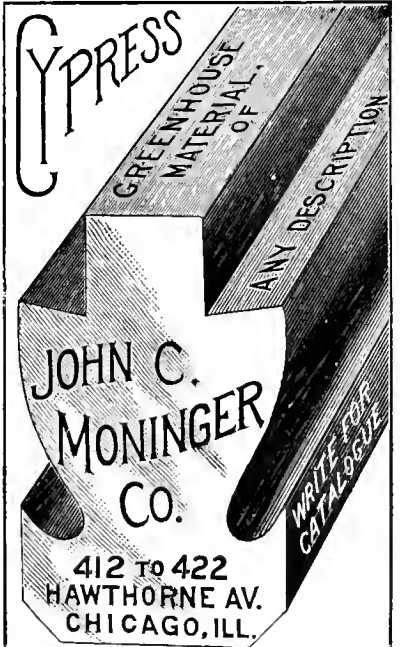
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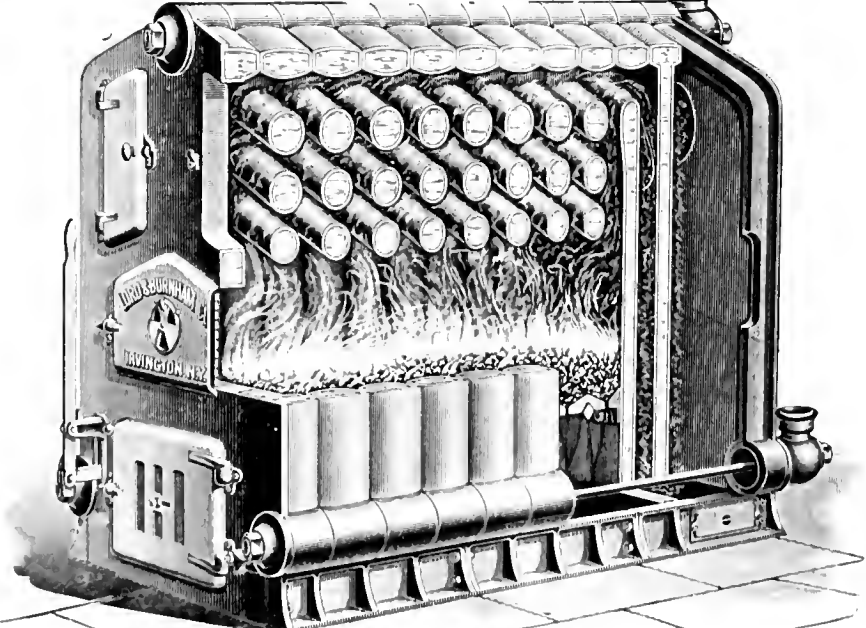
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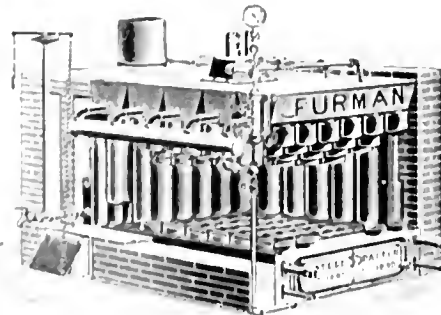
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# THE AMERICAN FLORIST



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## THE AMERICAN FLORIST

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### SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—Wm. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August, 1898.

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Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

### CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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THE NEW DIRECTORY of florists, seedsmen and nurserymen of the United States and Canada will be ready for mailing soon. Twenty-five hundred new names. Postpaid for only \$2.

### Notes and Comments.

What a difference is noticeable in the horticultural news reported in the daily newspapers nowadays and that which we read fifteen or twenty years ago. At that time a flower show was dismissed with a few lines. Now persons specially adapted to that class of work, either by intuition or experience, are associated editorially on many of our leading dailies. When an error does creep in the florist is to blame nine times out of ten for giving wrong information.

One of our Philadelphia great dailies fell into an error about Easter time, when in giving an otherwise very readable and instructive article on what might be seen in the florists' stores, made the statement that "the white 'grape' hyacinth, Botryodes alba, was so new in fact that it is not yet in the 'Gardeners' Dictionary.'" Nicholson's is meant, of course. This was an unfortunate "break," because everybody who reads this realizes that muscari was meant. The statement would not have attracted so much attention had not Nicholson been taken to task for his accused omission. This instance only goes to prove how easy it is to fall into error, and how lenient we should all be when a slip is made. Pope says:

Good nature and good sense must ever join;  
To err is human—to forgive divine.

It seems strange that those who make blunders hate to be told about them or have attention drawn to them in any way, and the greater the blunder made the less the maker of the blunder likes to acknowledge it or in any way make reparation.

Some years ago one of our leading newspapers had a very convincing article, apparently, about Joaquin Miller's rose farm in California, to the effect that the "Poet of the Sierras" was shipping the product of said rose farm at regular intervals in refrigerator cars to New York City, that they were eagerly bought and the poet was doing a profitable business. The undersigned having spent some time in California, and knowing the class of roses produced outdoors there, knew that the Greeks even would not look at the buds produced there with the object in view of buying them to sell again. I took the trouble to write to the newspaper correcting the glaring blunders made, but no notice whatever was taken of it, either by reference in its columns or by personal letter; and when referring to the matter complained about to a member of the editorial staff connected with another great daily, he said that his paper would not think of making corrections in a matter of that character. I

wonder why? The last named newspaper claims to be correct in everything, and the appearances of truth are written on every page.

To return to Muscari botryoides album as an Easter novelty, the editor in charge of the horticultural department was advised of the mistake and an acknowledgment and correction was cheerfully made on this occasion; but the idea that the white variety was new as an Easter novelty was persistently adhered to. It is, however, wrong nevertheless, for Pennock Bros. had it in fine shape for last Easter, grown by Albert Woltemate for his own retail trade, who divided his stock with the firm above referred to. This year Joseph Kift & Son secured quite as nice a lot. It is three or four years since Mr. Woltemate first had this plant in bloom for Easter. Muscari botryoides makes a very pretty Easter plant and it has the advantage of not being at all common.

Another of our Philadelphia dailies has an Easter flower story, which, I am afraid, is totally the outcome of a reporter's or correspondent's fertile imagination. The story is somewhat like this: On the Saturday morning before Easter the fair typewriter of one of the Chestnut street jewelry stores had an Easter lily presented to her. It was set on the floor beside the desk. During the young lady's absence at lunch the office boy decided to write a letter using red ink. Before he had finished his task the "boss" appeared, and in the boy's hurry to hide the writing materials he accidentally upset the red ink bottle, some of the contents of which found its way to the fair white blossoms of the lily. The young manager of the establishment after a series of questionings and cross-questionings caused the boy to confess. The manager having a tendency towards joking saw a great opportunity for a hoax. The boy was immediately put to work, and before the typewriter returned every flower was a brilliant pink. The manager satisfied the young lady by presenting her with another lily, and she, too, proceeded to enter into the full spirit of the joke. A placard, giving a history of the wonderful freak of nature, was neatly prepared and together with the pink lily was placed in the show window, and it is further recorded that all Saturday afternoon crowds gathered to view the wonderful plant, and the jokers were full of joy. "Before night" (here is the best part of all) "representatives from three seed houses had called, and after examining the plant pronounced it a genuine freak. These experts offered to pay a big price for the plant, but were all told that it was not for sale." To complete the story we ought to find out

who were the representatives of the seed houses, and whose seed houses did they represent. The late Peter Henderson used to tell a story similar to the above, but I have forgotten the details. I have seen white Roman hyacinths and Niphetos roses operated upon in a similar way, but no practical man would be deceived by them.

It is to be hoped that the next spring show of the Pennsylvania Horticultural Society will be fixed upon a date not quite so near to Easter as it was on this occasion, because the growers could hardly be expected to make much of an exhibit so close to the greatest of all floral festivals. The cut flowers of carnations and roses were excellent, especially the American Beauties, but these are more amenable to exhibitions than are plants. But we must have plants. I do not remember to have seen any of the pelargoniums at the show, either zonale, tricolors or bicolors, fancy or regal. These should be encouraged by offering generous premiums. So with the fuchsias—not one to be seen. Yet there is nothing more effective than a group of well grown plants of any of the above mentioned soft-wooded plants. There was a time when the veteran Wm. K. Harris exhibited plants of fuchsias at our spring shows from four to six feet high, well furnished from the pot up. When speaking of the fuchsia a short time ago, Mr. Harris made the remark that well-grown fuchsias would sell well to-day and at good prices. I agree with him.

E. L.

#### The Propagation of Orchids.

Among orchid growers there is a marked tendency to want to increase their stock by propagation, hence the question sometimes asked—"How best may I increase the stock of any particular variety?" There are some kinds, such as *Dendrobium nobile*, that may be propagated in the strict sense of the word; the old pseudo bulbs after flowering may be cut off and placed in a close propagating case or house on damp moss, and all of the nodes or joints of the stem that have not flowered will produce shoots, which may be allowed to grow until roots are seen and then potted in very small pots, nursing them along in a warm temperature until their season of growth is past, when they may be rested with the parent plant in a cooler house.

*Dendrobiums* sometimes make these growths on the bulb instead of producing flowers, and this is generally an indication of wrong treatment at some time. Often it is the result of imperfect ripening and rest, and sometimes it is a sign of improper conditions at the root, in either case it is nature's way of protesting, and the cultivator will at once see what is wrong. These young plants raised in this way are very apt to make valuable specimens if grown on with the same care that is given the older plants, and certainly there is not the tendency to degenerate we sometimes find in larger pieces that do well for a year or two and then deteriorate.

*Cattleyas* are only to be increased by division—and as in a normal growth there is only one bulb made in a year, it will be seen that it is a slow process to increase our stock in this way, although it is possible to get up a nice lot of plants in the course of time by carefully watching the opportunity to make an incision in the rhizome that connects the bulbs at the base, making only a notch and not covering it at first. It is best to leave at least five bulbs at the back of the last one

made to give ample support to the next year's bulb, and back of these five, if there are any more (as often happens) that are doing nothing, they may be induced to "break back," that is, some dormant bud will surely start if they are prevented by the incision from having any other outlet for their stored up energy.

This method of inducing back breaks is only to be practiced with caution. I well remember when a lad, reading in "Williams' Orchid Manual" for the first time of this method, and there being on the place a huge specimen of the old *Cattleya crispata*,

were more of them, but they were even smaller. There was trouble over that plant, and the man in charge heard of it; but the experience was mine, and while it did not cost me anything, it was a lesson that has lasted, and the telling may not be without result to those who would increase their stock of *cattleyas* unduly. I have found it a safe thing to do if at least five bulbs are in front of a cut, and some of the back ones have leaves on.

*Cypripediums* are easily increased by division at almost any time of the year, but preferably in the early part of the



VASE OF CYPRIPEDIUMS AND ASPARAGUS.

it dawned on me that this was a great opportunity to become distinguished, and next morning early, this plant was severed into many parts by carefully made cuts that were not visible to a casual observer, as they were not notched. I should have said that this particular plant had become historic for the number of times it had been sent to a local exhibition each year in August. That year it did not go, the growths were not strong enough to bloom, the next year there

year before root growth starts. I have found it easier to keep *cypripediums* in good health when the plants were of medium size rather than when in large pots and of considerable bulk. I recently divided many that were in large pans and put them into small pots to begin over again; with the tessellated section this seems the best method to adopt when it is desired to have a quantity of plants and flowers, and not necessarily a few individual specimens of greater size. *C. insigne*

and its hybrids are easily cultivated in specimens, and difficult to divide when grown so; but I find that the South American kinds known as selenipediums are very subject to white scale insects, and these are difficult to eradicate when on large specimens, and the young growths get badly crippled in consequence. Back growths are easily produced on cypripediums by this system of cutting the rhizome between all the growths that have roots of their own, and it is easy to get up a stock quickly of any cypripedium as compared with cattleyas and laelias.

The foregoing methods of propagation are at best artificial, and a makeshift such as the cultivator is obliged to adopt in the absence of quicker ones. The more legitimate one is nature's own, by the regular process of impregnation and seed bearing; it is true that this method is slow, but then it is measurably sure, and if the grower at the same time chooses to cross two varieties, species, or genera, the result has an added charm and value which will grow on him, and the months will not seem so long if he has coming on a number of seedlings so that when one reaches the flowering stage there will be many more to follow.

Orchids are among the easiest flowers to hybridize by hand, and at the same time but very few of them have the power of self impregnation that is generally given other families; there must be aid given either by the hand of man or by insects. Bees in the orchid house make things lively, if they gain entrance in spring or fall when there are flowers open, as every flower visited will wither the next day. It is not necessary that the flower be impregnated, for the removal of the pollen is sufficient to make the flower wilt as has often been proved by removing the pollen for the work of hybridizing, so sensitive are the parts of reproduction in this family.

The older botanists looked with horror on hybrid orchids, and those of the present day have much trouble to keep them classified, or even to coin names for them. The hybridist has broken down the barriers set up by the authorities, and not only have new genera been created to meet the demands, but old ones have had to be abolished or merged with others, so that it is hard to lay down lines for the beginner to work upon, and he will have to judge for himself as to allied plants, or suitable varieties to start with. It used to be considered impossible to cross Mexican laelias with the cattleyas, but it is done now with ease, and the beautiful *Cattleya citrina* will cross with the large-flowering South American kinds; others have flowered them, and I have seedlings potted off. The epidendrum will also cross with the cattleyas and give startling progeny.

After the flower has been set for seed, a cattleya will take from six to twelve or even fifteen months to mature the capsule, and when the same is ripe, the sections will separate and, if not carefully cut, drop all the seed. There are, without exaggeration, millions of seeds in some of the capsules, a greater or less proportion of which are of good germinating quality, as may be determined with a good lens before planting. If the seed matures in the winter months, it is best to wait until April before sowing. I find on referring to the records, that more success is due to April sowing than to that of any other month in the year. Small though they are, the seeds may be kept

in a box in a dry place out of the way of cold for a great length of time.

When sowing time comes it is best to choose a plant that has been recently potted in good brown spongy fibre, and sow the seed on the surface; if the plant be of not great value as a variety, so much the better, for we have found that the pre-requisite for success in germinating orchid seeds is saturation; once sown they must never be allowed to become dry at any time, and it is possible that the great amount of water applied may be too much for the plant that is in the pot. When watering for the first few times, dip carefully so that the seeds will not float off, and I find that if the material be soaked before sowing, the seeds will adhere to the fibre so that it will not float off unless it be of poor quality; there is that wise provision of nature that enables them to stick to a wet surface, and if this be continually moist, germination is assured. The greatest trouble experienced is with the prothalli of ferns and the like that find a congenial place to germinate and choke out the young plants, and for this reason also we never use moss in the pot on which seed is sown; it will grow and smother the tiny plants rapidly.

If the seed be good and all things favorable, germination of cattleya seed may be looked for in six weeks; I have potted off plants from seed sown no longer than this. Some sorts, such as *C. Leopoldii*, will take six months, but *C. Leopoldii* will ripen a pod in half the time others take. A good rule that I have found no exception to is, that the longer a pod takes to mature, the greater the probability of results and the quicker they will be forthcoming. It is most interesting to watch the tiny plants in their first stages of existence, not half the size of pin-heads, and then the leaf point shoots up and they look like peg-tops, and are taken up on a toothpick or some suitable implement, and transferred to small pots, several in each, until they make roots; later they are put singly in 1-inch pots for a year and then they will need larger ones.

From this time on the progress will be

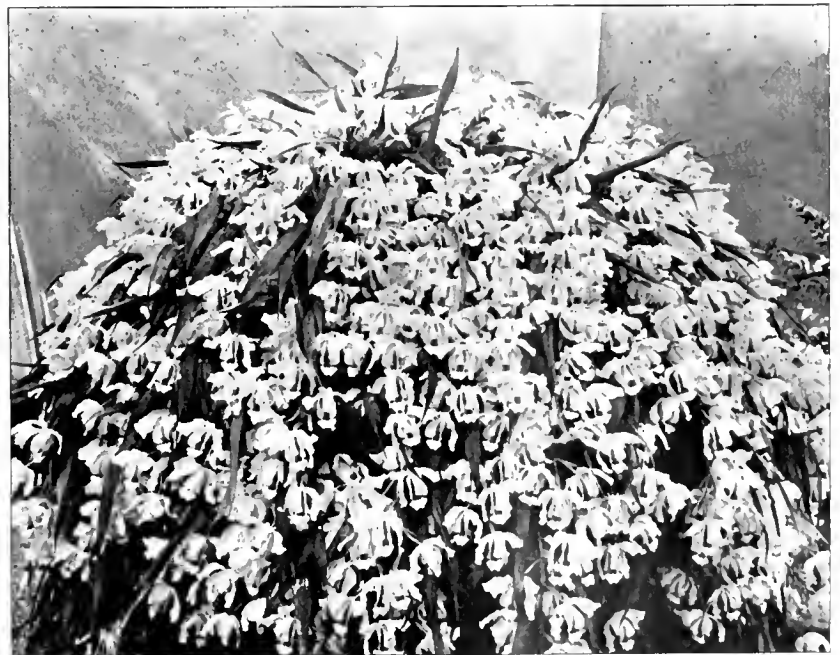
rapid, and highly interesting to the operator, especially to trace the influence of the parents; if the latter be dissimilar it can readily be seen in the first leaf point. The reason the tiny plants are transferred in the thallus stage is for fear of vermin; a snail, slug, or woodlouse would in one night make a meal of a score or more, and for this reason all are kept isolated over saucers of water after being put in pots.

I am well aware that to the average florist there is not much inducement to begin raising orchid seedlings; life is too short, and there are many things of more financial interest; but there are some who will be sufficiently interested in the operation to experiment along these lines. If not undertaken as a labor of love, it will all be lost, for the constant watchfulness necessary to get results can only be born of an interest in the work. I have not treated on the cypripediums as there is practically no room for new operators in this field; if we have a good thing coming on, it is only to find that some other grower across the ocean has anticipated us by a year or so, and there is small remuneration and less glory to be won in this family. E.

#### Coelogyne Cristata.

The beautiful plant which we illustrate on this page was purchased from the De Witt Smith collection by Mr. Zenas Crane, of Dalton, Mass., its present owner, about ten years ago and was considered a pretty good specimen then. It now measures nearly twelve feet around the base when in bloom, and carried this year between 1,200 and 1,300 flowers.

The treatment of it by Mr. Dolby, the gardener in charge as well as that given other smaller specimens which are equally floriferous, consists in abundance of water at all times except just previous and during the time when in flower and a cool temperature with plenty of air and shade. After flowering some of the old pseudo-bulbs are cut out, if crowded, and sphagnum packed in around the pseudo-bulbs to raise up the center of the plants.



COELOGYNE CRISTATA.

## Paris.

THE VIOLET INDUSTRY IN FRANCE.—METHODS OF CULTURE AND SHIPPING.—VARIETIES OLD AND NEW.—PRICES, ETC.

The flowers which in importance even supersede the mimosa in southern France are the violet and the rose. Hyeres is the place where the violet is grown to the greatest perfection, and the area devoted to that flower there is not far from 400 acres. It is to the genial atmosphere during winter and the great care with which the growers guard against the summer drouth that is due the production, in the favored district under notice, of the immense quantity of violets which from October to March are sent to the northern countries.

The open air culture of the violet for winter export was started around Hyeres some twenty years ago, and as it can be effected under the olive trees which are no longer profitably grown, it is very remunerative. According to Mr. Nardy, two kinds of violets which are now in oblivion, were grown at the start; one named De la Valette was a vigorous, hardy, small-flowered, but profusely blooming and deliciously-scented, dark colored variety, which, unfortunately, was too short stalked; and the other called Wilson was very sweet and long stalked, but had also a great drawback in its poor color.

After the above two kinds came the large-flowering, deep colored Czar, which ten years ago had the palm of fame, and well deserved it. This once so popular variety has, in its turn, been superseded by the following still finer sorts: Luxonne, a vigorous, free blooming kind, with a somewhat smaller flower and shorter stalks than the Victoria, but of a fine deep colored hue and well scented; Victoria, a sturdy plant with vigorous large foliage, producing an abundance of large, well-shaped flowers of a splendid color. Several gardeners around Hyeres have through careful selection still improved on these kinds and produced better varieties, among which are: Prin-

cesses de Galles as regards size and color. It is long stalked, vigorous and very good for forcing.

The culture of the violet in southern France is very simple. The plants are usually grown on the flat in rows 11 $\frac{1}{2}$  feet apart and 10 to 12 inches asunder in the rows, which distance is necessary to prevent the flower pickers from treading on the plants. On low lying ground, where an excess of moisture during winter may be feared, the plants are grown 2 feet apart on a small slope running from east to west. The plantations usually last two years, rarely three. Experience has taught that with the best care and notwithstanding the removal of the runners which exhaust the plants, and high manuring in the autumn, the plantations which are three years old seldom yield as many or as good flowers as those of two years. The fresh plantations are generally formed from December to March, in proportion as the lands become ready. It is a rule to plant two or three plants together, to get stronger clumps in the following fall. Only at planting time, and until they are well rooted and afterwards very late in the summer, are the violets given a good watering around Hyeres. The gardeners know by experience the great advantage of reducing to two or three, according to the land and its situation, the application of water during the summer. This small supply of moisture compels the plants to take a good rest in summer, instead of wearing themselves out in producing runners without necessity. They repay for that rest in producing the following winter, under the influence of moisture and the mild temperature, which at Hyeres is equal to spring in northern latitudes, a great abundance of fine sweet flowers. The plantations also receive in September or October manures which are active and readily available as plant food. The fertilizing materials are supplied in the form of high grade commercial compounds or of vegetable or animal

favorable weather, the export of flowers in small bunches amounts daily to about 400 parcels, weighing a little over six pounds each, which represents more than a ton a day.

The photograph herewith reproduced shows the three sizes of bunches in which the violets are sold on our markets. No. 1, called "Touppillon," is composed of about 50 flowers of Czar violets, and towards the end of March was sold for 1 cent American money. Bunch No. 2, called "Boulot," is made of 100 flowers of the Luxonne violet and was worth 2 cents, and No. 3, called "Gros Boulot," is composed of 150 flowers of the Princess of Wales, and was worth 5 cents at the same date. The bunch of the latter variety seems to be twice as large as that of the Luxonne.

The violets are all grown in the open ground at Hyeres; though sharp and protracted frosts are, so to say, never experienced there, the growers, who generally have no glass frames at their disposal, know well how to keep off the cold winds by the use of screens made of heath or reeds. In this connection we may say that wind-breaks, shelter fences and screens play an important part in the floriculture of southern France. Glass structures, usually unheated but with a pipe lying flat on the ground to increase the temperature in case of an emergency, are becoming more and more frequent; but as they are very expensive, most of the florists growing bush roses, pinks, mignonette, etc., afford their plants the necessary shelter with low rows of glass frames, supported by a single central rail. These frames slope almost to the ground and the lower part of the sides are made tight with straw, heather or seaweed, thus affording an increase of about 5° centigrade in the temperature.

Shelter hedges are also very common, the best being made with *Cupressus macrocarpa* and *C. fastigata*, planted from 18 to 24 inches apart. The latter variety, owing to its tall growth and pyramidal close habit is particularly suited to form shelter fences from 2 to 2 $\frac{1}{2}$  feet high. In a subsequent letter, we shall say a few words about the diseases affecting violets in southern France. PARISIAN.

## About Water-Bouquets.

These used to be common at flower-shows, and they were occasionally used for public and private decorations. The fashion, however, did not last very long. It was difficult to fix the bouquet in the right place, to choose material, to place the bell-glass over the bouquet, to fill with water, and to remove the bouquet from the water to the dry stand. Taking the last first, I had a rather serious accident some years since with a huge water-bouquet at a provincial show. This bell-glass was some two feet in diameter, and over two feet high. Neither a pail nor a tub could be found, nor water sufficiently clear near the show-tent to flood, or rather suspend, the bouquet in water; hence, my resort, single handed, to a lake in the park some distance off. It was difficult to find a solid standing place. But the water was clear and deep; and after considerable difficulty in floating and submerging the bouquet, which looked lovely in the water, the huge bell glass or globe was placed over, and every bubble of air drowned out, and a china plate slipped under it before the crown of the bouquet reached the surface of the water. No sooner, however, did I attempt to lift the complete water-bouquet out of the water than it strove to drag me into

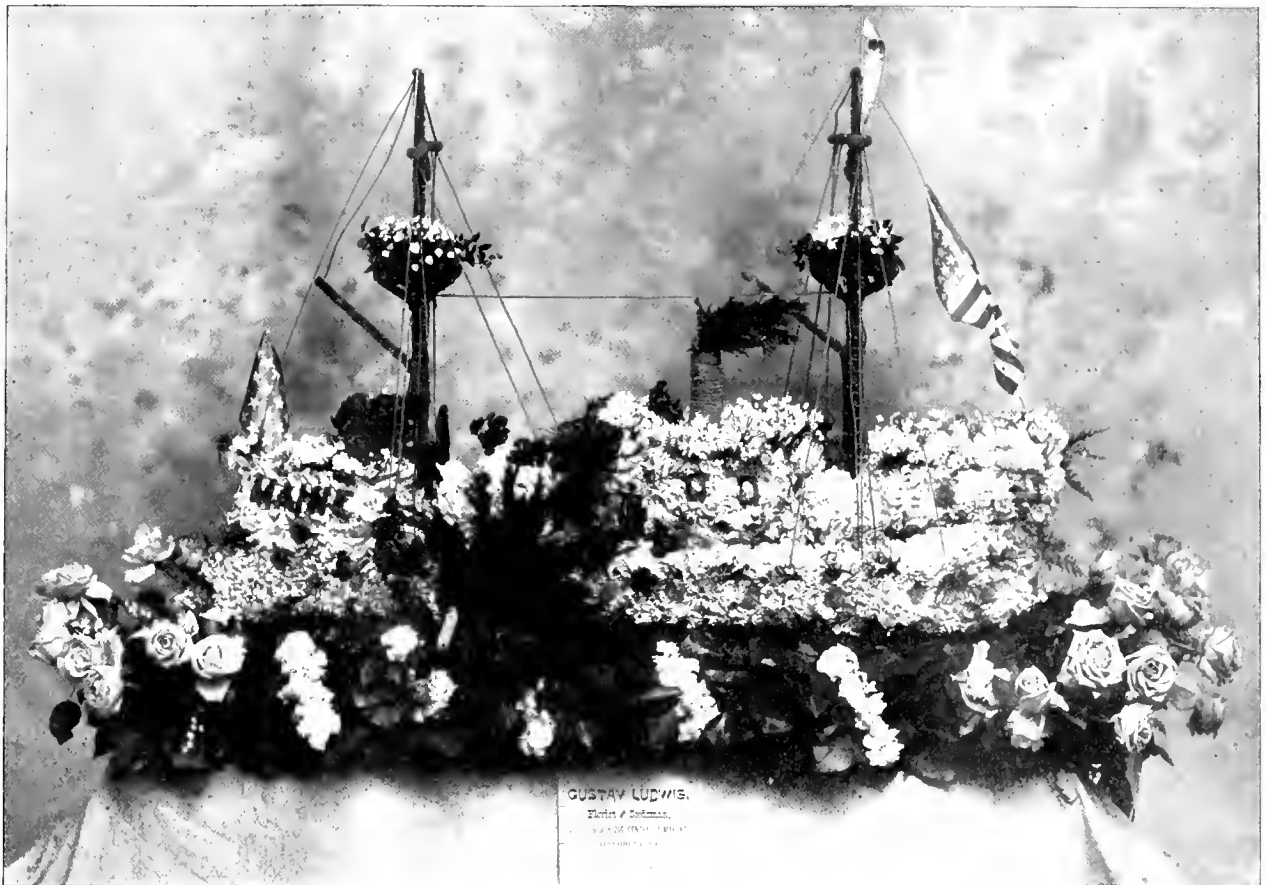


VIOLETS AS BUNCHED IN FRANCE.

cesses de Galles, which seems to be the largest and finest of all singles and has vigorous foliage and long stalks. Gloire d'Hyeres, a strong sturdy kind, remarkable for its capability to withstand the frost, which up to date no other approaches at Hyeres. Another kind introduced lately through one of our Parisian growers and called La France, appears to be the latest improvement, and will at

manures selected with care to supply the needs of the various soils, all hoed under judiciously. Should it not rain within a few days from manuring, a good watering is given to start the decomposition of the fertilizing elements and render them serviceable to the roots.

The packing, packing and shipment of the violets keep busy during the winter, at Hyeres, from 100 to 600 women. During



UNITED STATES BATTLESHIP MAINE, BY GUSTAV LUDWIG, ALLEGHENY, PA.

the lake, and the weight of the flowers, the water, the china plate, and bell glass, and the pressure of the atmosphere on the glass globe were so great that they nearly succeeded. After a short sharp struggle, the glass gave way, the plate sank to the bottom of the lake, and the bouquet which had been weighted with lead to preserve its position, gracefully disappeared. It need hardly be added that this was the last of my monster water-bouquets made for exhibitions. Water-bouquets of medium or small size are the most beautiful as a rule. One of the chief points is this filling of the glass quite full of water, another is the choice of globes with a level bottom as well as a base, dish or plate with a smooth or even base. The object of this is to enable the glass and the plate to form an impenetrable barrier between the water and the air. Hence the glass, whether large or small, pressed down by the weight of the air clings to the base of the water-bouquet as the limpet to the rock, or the sucker of wet leather to the stone. Then no attempt must be made to remove the glass, or repair water-bouquets, without first plunging them overhead in a pail or tub of water. As to steadying the bouquet in the water, it is a great mistake to use a lump of clay, as suggested by one of your correspondents, as this would soil the water, and prevent the flowers and leaves from being clearly seen. There is nothing to equal a bullet of lead, worked into the centre of the stem. The whole of the materials of water-bouquets must also be scrupulously clean. The bouquets should likewise be an artistic bunch of ferns, flower leaves, grasses, rather than a

formal hand-dress or drooping bouquets of the usual forms. This change of front and form in water-bouquets gets rid of most of the difficulties of hiding unsightly stems or stalks. No mistake did more to lower or ruin the popularity of water-bouquets than overcrowding. Not a few seen by the writer conveyed the impression that the chief object of their makers was the crowding of as many leaves and flowers into their novel position as could be managed, no matter with what amount of crushing against the glass, whereas the primary object of every water-bouquet should be to display, in the most artistic manner, every leaf and flower used, and preserve their freshness and beauty as long as possible, and magnify both through their limpid setting. This making and placing of water-bouquets needs cultured taste. The setting, like the last touches of the artist on his canvas, not seldom makes or ruins the effect. In both cases, courage, firm handling and skillful manipulation are needful at the finish. The water-bouquet must have its last touches under water, and the artists who fear to take off their coats and tuck up their shirt sleeves, will seldom succeed perfectly. A few touches of the leaves and flowers before the glass barrier separates us from them makes all the difference often between the highest art and the commonplace.—D. T. F. in *the Gardeners' Chronicle*.

#### Battleship Maine Design.

This piece was made by Gustav Ludwig, of Allegheny, Pa., on the occasion of the funeral, two weeks ago, of the late

Lieut. Jenkins, of the ill-fated warship. It was seven feet long on the water part, the boat itself being over five feet in length. The base was made of ivy leaves and white roses, and the hull of pink carnations. The explosion was represented by red sprays, the fire and smoke by red carnations and black immortelles. The illustration shows the location of the explosion in black.

#### Rose Notes.

How shall I manage roses grafted on the Manetti from the small pot stage up to the time of planting out, and what soil seems to suit them best? These questions have been asked by many readers of these pages during the last few weeks, so to shorten up my correspondence I will try here to answer all parties interested at one and the same time.

All growers who have had much experience know how important it is to keep young roses in pots in a thrifty growing condition and avoid the hardening up or stunting process which results from being pot-bound and the lack of sufficient nourishment. This applies with equal or greater force to grafted plants, and it is possible that many of the failures and partial failure of these plants might be traced directly to this particular period of their growth. I am quite satisfied that in order to have the best success we must allow no setbacks while in pots, whether from lack of root space, too much crowding of the foliage, excessive watering, or the ravages of insect pests, such as red spider and green fly. Once the roots are lost and the foliage blighted our season's

prospects become anything but rosy. Unless handled with the greatest skill, it is not safe to count on keeping them longer than from four to five weeks in the same pot; so if not prepared to plant early it is best to shift them from a 2 1/2-inch pot in a 3-inch, and when another change is demanded put them into 5-inch, with about one inch of drainage, which can be shaken off at time of planting. If they are to be planted out during May, we can use a 3 1/2-inch pot in place of a 3-inch, and save handling a second time.

It has been found out by a writer in one of our trade papers that there is a tendency among tea roses, when worked on the Manetti stock, to die off when grown to a considerable size. It is true they do act in this peculiar manner sometimes, lack of affinity probably being the cause; Beauty, Perle and Morgan particularly I have noticed, Bride, Mermet and Bridesmaid fortunately less often. The loss from this cause is sometimes large, at other times infinitesimal. This tendency may be counteracted very largely by deep planting so that part of the rose is below the surface; in that case, should the root at any time fail to sustain the top, the rose will throw out in abundance roots of its own and become practically independent. In order to be able to plant deep we must graft low and pot deep. To prevent the rose splitting off while syringing it is necessary to stake and tie soon as they are shifted from the small pots. A neat and handy stake for the purpose, and one that is reasonable in cost, is made from No. 12 galvanized wire, cut into lengths of fifteen inches.

If the plants make ordinary growth the size of pot will hardly correspond to the amount of foliage. Because the tips look well even when the plants are badly crowded, do not imagine they are all right any way; you are surely laying the foundation for all kinds of disease, and making a nest for numerous insect pests; light, air, sunshine, should surround every plant. As to soil, I have always considered that a rather heavy clay loam furnished the ideal compost for both the Manetti and canina, the latter I know grows luxuriantly in its native wilds in strong clay, the stronger the better, and in all my experiments with grafted roses I have worked on this basis, and in the main have been fully satisfied. In conversation with a prominent western grower, a short time ago, however, I was surprised to hear him express the opinion (based on personal experience) that the Manetti was specially adapted to the light soil of that section—soil not well suited to the requirements of Bride and Bridesmaid when grown on their own roots. I mention this to show that, contrary to preconceived opinions, the Manetti is not dependent for its best growth upon any particular kind of soil.

ROBT. SIMPSON.

**How to Grow Genistas.**

By Robert Simpson, 14 Bond Street, New York, N. Y.

The genistas are sometimes called cytisus, but the former being the old Latin name and the one with which I have been the longer familiar, I shall use it in this paper. Genista is a large genus, over six hundred species have been described. They are natives of Europe, Asia, Africa and the Canary Islands; many of them are hardy, and fall are of a shrubby character. Genista Canariensis, from the Canary Islands, and G. racemosus, supposed to be

a variety of greenhouse origin, are the only two varieties usually grown for house decoration. G. racemosus, being the best in color and in habit, I grow the most of this variety.

The propagation of genistas may be done either in mid-winter or spring. I prefer the former, although they take much longer to root. But the difference in the size of plants pays for the extra time. For winter propagation take cuttings of good size (with a heel), say four to six inches long, when the plants are in a dormant condition and insert them in a propagating bed, box or pot, as best suits your convenience, with a temperature of about 55° or 60°. Wait two months or so and you will have a lot of well-rooted, stocky plants.

For spring propagation, take the ends of the young growths about two inches long. Put them in a propagating bed with the temperature of about 65° to 70°,

they burst into beauty, soon to die off under neglect in some palatial home.

The next plan is to plunge them in their pots, in some material which will retain moisture, outside in a frame. The last is to plant them in the field as early as it is safe; lift and pot them on the near approach of frost. Of these three, the first is my method of culture, and I will describe it, as I think it gives the best results, although more expensive than the others. But quality is my aim for the results of my labor. I always find it pays, and believing you want the best methods, I will pass over the latter two.

While growing, the genista loves plenty of moisture, and a good, rich compost, consisting of one-half loam, cow manure and sand in equal parts for the other half, with a little bone meal added. Shift the plants from one size of pot to the next larger as the pots become well filled with roots. If it is your wish to grow shapely



CYTISUS RACEMOSUS.

and shade from sun. Put them in thumb pots, with care not to break their brittle roots, as many plants are lost from this cause in transferring them from the propagating beds to their first pots. After they get established in small pots, there will be no difficulty in shifting from one size of pot to another.

There are three ways of growing genistas in summer and but one in winter for the best results. The first method for summer treatment is to keep them in greenhouses. That is to say, they live in greenhouse from the cradle to the grave; they are born there, they thrive there until at last, to give a generous reward for their kind and incessant care,

plants, they will require trimming five or six times during the summer and autumn. You may trim and train them into any desired shape.

I see your fancy. Consult not the plants; they will yield to your whims in response to liberal treatment. During the summer give all the air possible to keep the heat down to about 70°, until about the end of November. Then lower the temperature to about 40° and keep your house as near that as you can. By the first of February the plants will be pretty well rested, and during this period should be given but little water. Then you may have them in bloom any time you desire up to Easter by giving them a tempera-

ture of 50° for a week or so, then raising it to 60° and 65° and increasing supply of water.

Care must be taken in forcing during February, or you will grow them past their flowers. Cuttings rooted during the winter should make nice plants in 6 or 7-inch pots by the following year. If specimens are desired, these plants should be cut back as soon as they have finished flowering, and then treated precisely as young plants. This operation may be repeated year after year until the desired size is reached. WILLIAM K. HARRIS.

#### Carnations.

Topping carnations is a simple matter, and yet there is quite a diversity of opinion as to the proper method and the proper time. Some growers prefer pulling the top out of them very young, in fact almost as soon as they leave the cutting bench, and thus induce the branches to come out from the axils of the first leaves next the ground and make what they call a nice stocky plant. There is no question but what this does make a nice stocky plant; and so long as the plant is in a pot or boxed off it is all right, but when that plant gets out into the field and is subject to the weather it has to have very careful planting in order that the branches are not under ground at their base, and no matter how carefully it is planted the first heavy rain will wash a lot of soil into the axils of the lower leaves and among the branches, and it is ten to one that you are going to have stem rot in the field and pretty bad at that.

Take the same plant grown inside all summer you have the same trouble, and in fact more of it, for the branches close to the ground exclude the air and light from the base of the plant, and it is always subject to or ready for disease. There should be to every carnation plant at least one inch of stem between the top of the root clump and the first pair of leaves, and by the time they are ready to house in the fall this should be increased to two inches if possible. This length of stem at the base of the plant can usually be obtained by allowing from five to seven pairs of leaves to mature on your young plants and then pull the heart out between the fifth or seventh pair. In most cases this will cause the axillary buds in the four pair of leaves from the top down to develop into branches and thus give your plant a good working base.

Whether you pull the heart out between the fifth or seventh pair of leaves will depend on the growth of your plant and to some extent on the variety. If from the manner of growing your plants, or if it is a characteristic of the variety to produce considerable length of stem between the leaves, then in order that your plant does not get top heavy it is best to top when the fifth pair of leaves has developed. Where the length of stem between the leaves is very short it is better to wait until the seventh pair develops as these short, thick-set growers are more apt to branch out next the ground if topped the least bit low. The object is to have a plant that will stand erect and not topple over, for in the latter case the axillary buds will develop from the leaves turned up and those underneath would not come out thus giving you a one-sided plant that would be a nuisance all the way through, although even such a plant is better for indoor culture than one too thickly set below, as these can be tied up so that their base clears the ground.

Topping carnations should not be done



GALANTHUS CICLICUS. (See page 1157.)

at the same time that you are planting them out, for there is quite a close relationship between the leaves and the roots, and the taking away of a portion of the leaves effects a certain proportion of the roots as well. When you plant out the root action of the plants should be as near perfection as possible so that the young plant takes a speedy hold in the soil and gives the leaves a chance to make use of the rich nutrition in the outdoor air and rains. It is best when practicable to have your plants in such a shape that they will not need topping for ten days or two weeks after they are planted out. They will then be well enough started to quickly recover from the effects of the topping.

If the plants are topped a week previous to their being planted out you will get about the same results, and where there is an occasional one that needs topping as you are planting them out, better to do it than run chances of its tumbling over and making a malformed plant. There are some varieties that will branch out close to the ground in spite of all your efforts to the contrary, and for such as these it will be best to plant them on rows thrown up at least six inches above the level of the field and during the summer keep the soil rigidly away from the base of the plant and you will thus get what little stem there is of them hardened to the sun and air, and by giving them the same treatment in the houses will get good results from them in spite of their growth.

ALBERT M. HERR.

#### THE EASTER TRADE.

A large number of additional reports have been received from our correspondents since the publication of the issue of the 16th inst. These in general confirm the summary given last week, as may be gathered from the details of a small portion of them, as follows:

NASHUA, N. H.—Prices and total sales about the same as last year, except on lilies, which were higher; supply ample in all lines; everything sold well.—A. G. & Co.

ALEXANDRIA, VA.—Trade shows an increase of 50%. Prices a little better than last year, except in case of Harrisii lilies, which brought a higher figure. Plentiful supply of both plants and flowers.—J. L. L.

VICTORIA, B. C.—Jno. McTavish reports a 20% increase in volume of trade with prices about the same as last year and plants and cut flowers in good supply; there was little call for plants, and in cut flowers bulbous stock, roses and carnations were most in demand; outlook for spring sales brighter.

SAN FRANCISCO, CAL.—James Lynch reports total money value of sales about the same, with no increase of prices over last year. Plants and flowers nearly equal to the supply except Harrisii lilies, with very little demand for plants. In cut flowers, sweet peas, roses, violets and lilies were most in demand. Sweet peas scarce and a big figure offered for them.

ST. LOUIS, MO.—The Jordan Floral Company report trade generally normal, but with an active and increased demand for all blooming plants. The prevailing high prices had a tendency to reduce the volume of business done.

OKLAHOMA CITY, OK.—The Oklahoma Floral Co. report sales 50% better, prices very good. Plants and cut flowers in good supply. Good demand for white and pink carnations. House and church decorations were quite a feature.

WINNIPEG, CAN.—Richard Alston reports sales 25% better; prices the same as last year. Good supply of plants and flowers, *Harrisii* lilies excepted. Cut flowers most in demand were roses, carnations and double tulips, principally white.

WASHINGTON, D. C.—A 10% to 20% increase in money value in sales, prices being about the same as last year; supply of plants in excess of demand, which was not great; violets and carnations were short; among plants, lilies were in good demand.—C. L. K.

ALBUQUERQUE, N. M.—Total sales were about the same as last year; prices ditto; there was no demand for plants, and the supply of cut flowers was ample; bulb stock among cut flowers did not sell well, the demand being mostly for roses and carnations.—B. H. J.

OAKLAND, CAL.—Sales about 35% better; prices same as last year. Plants and cut flowers plentiful except *Harrisii* lilies. Call principally for calla lilies; among plants, both longiflorum and *L. Harrisii* were a poor crop. Churches elaborately decorated.—H. M. S.

MILWAUKEE, WIS.—Messrs. Currie Bros. state that sales show an increase of 25%, with prices ruling higher than last year. Plants and cut flowers in good supply. Lilies and hydrangeas most in demand. In cut flowers all good stock of every kind was salable. No kicks at high prices.

NEW ORLEANS, LA.—Total value of sales about 10% greater with prices about the same, supply of plants and cut flowers fully equal to the demand. Blooming plants did not sell well; the salable cut flowers were lilies, roses, carnations and sweet peas, the war scare has injured trade.—M. C.

NEW BEDFORD, MASS.—Money value of sales about the same as last year with lower prices, supply of plants was not equal to the demand. There was plenty of cut flowers except violets, among plants, lilies and azaleas sold well with light call for bulb stock, prices ranged high in general.—L. S. H.

SALT LAKE CITY, UTAH.—R. L. L. reports trade about one third larger than last year with prices about the same. Plants and cut flowers were both in good demand with callas and bulb stock in pots a little slow. *Harrisii* lilies and carnations of in cut flowers, roses, narcissi and daffodils being less called for.

LOUISVILLE, KY.—Cash sales were 25% better this year and everything brought good prices. There were no good plants of any kind in the market but in cut flowers there were plenty of every kind except lilies, large plants of all kinds in demand, boxes of hyacinths especially, all cut flower stock sold about alike, violets as usual being scarce.—F. H.

NEW LEON, TEX.—Prices were the same as last year with trade somewhat

poorer; cheap plants were short; wholesale prices were too high on cut flowers; carnations hard to get; lilies and bulb stock, among cut flowers, were chiefly called for; palms did not sell well; small pans of lily of the valley and hyacinths went like hot cakes.—J. S.

BRATTLEBORO, VT.—D. McGillivray reports a 20% increase of trade; no change in prices from last year; supply of lilies both in cut flowers and plants was short; carnations and other flowers plentiful; large demand for lilies and tulips in pots, and of cut flowers lilies, daffodils, carnations, violets and stocks were most frequently asked for.

NEWPORT, R. I.—Prices and total sales about the same as last year; in plants, lilies, spiraea and Roman hyacinths were short; carnations, violets, *Harrisii* and longiflorum were short; in plants, lilies, Roman hyacinths and spiraea were most in demand with azaleas and narcissi least salable, in cut flowers, carnations, violets and lilies were most called for.—J. J. B.

OMAHA, NEB.—Total sales show an increase of 10%, with prices about the same as last year; supply in all lines equal to the demand; palms, azaleas and cinerarias sold freely with Dutch hyacinths, cyclamens and primroses going slow. There was little demand for cut bulb stock; other standard varieties of cut flowers selling well.—HESS & SWORONA.

GRAND RAPIDS.—J. A. Creelman reports an increase of 15% in sales, with prices 20% less than last year. Plants good, flowers equal to demand, with a surplus of lilies. Hyacinths, tulips and the like went fast. In cut flowers no one wanted roses, and carnation sales equaled all others combined. Violet plants lifted and potted sold at sight for 25 to 35 cents each.

SPRINGFIELD, MO.—Trade materially increased, with prices 15% better. Plants and cut flowers in fair supply except cut lilies, which were short. Lilies in pots were most in demand. Azaleas are not yet popular with our people. But little demand for bulbous stock. The lily trade, in pot plants and cut blooms exceeded all other sales combined.—W. A. C.

PITTSBURGH AND ALLEGHENY, PA.—Total sales were greater, probably 30%. Prices normal. Supply of plants and bulbs equal to the demand. Of plants, azaleas and hyacinths in pots and lilies were most salable. Palms and genistas little in demand. Of cut flowers, carnations, violets, and bulbous stock sold best. An increased demand was noted for lilies in pots. REID.

TACOMA, WASH.—Sales 25% greater than last year with no increase of prices except on roses and carnations, which were better in quality, among plants potted roses were scarce, and in cut flowers, violets ran short; tulips in flats did not sell well while hyacinths in flats were in great demand, carnations, roses, violets and lilies of the valley mostly called for, callas and tulips being the least salable in cut flowers.—McCoy.

DENVER, CO.—Two leading florists report sales as 20% better, others reticent and stock left on hand. Prices not generally as good as last year. Plants were plentiful and to spare. In cut flowers carnations were not equal to the demand and the call seemed to center on these with roses and violets. In plants hydran-

geas were too plentiful, and lilies, of course, took the lead. Business seemed to be rather unevenly distributed.—J. N.

BUFFALO, N. Y.—D. B. Long writes, city sales may be estimated at from 15% to 20% increase. Thursday fair and cool, but Friday, Saturday and Sunday weather unusually favorable. Rather more liberality than usual was shown by flower buyers, and good prices were readily obtained for choice stock. In cut flowers, carnations and violets only could be called scarce. Roses were abundant and bulbous stock a trifle overdone. Of plants, those in flower were all sold out. Palms and foliage plants were but little called for. Cut roses did not show as sharp a demand as at some other times. Violets were probably the most active. Medium priced, good quality stock and plants, go best. Dutch hyacinths planted in pans went well. Enterprise grows apace; four extra stores or annexes were occupied on Main street alone.

#### Helpful Reminders.

Asparagus vines are making growth now, and many find that the plumosus variety is producing stems very long and full of thorns, not leaving out until they reach the glass. Do not conclude that their house is not high enough for them. If the stem was given an opportunity to grow as tall as it could, it would produce but a single whorl of leaves, which curl around the long stiff stem in a spiral form. Break off the stem two to three feet above the ground and they will break out, making beautiful large clusters of growth which may be trained singly or to form a thick rope. After you have it strung up, fork up the soil loosely and give the bed a good top dressing.

You will be receiving orders now for filling window boxes and vases for outside decorations. It is well to solicit orders early. Your customers like plants in place by Decoration Day, and it pays to fill orders at once in your greenhouse. Make room for them by moving out your left-over stock of azaleas, primroses and such shrubbery as was forced for Easter. Many of your verbenas and geraniums can go into cold frames. You can fill boxes and vases better at home and with less material, as they will have four weeks' growth before delivery. Many plants that are pot-bound can be used that will recover entirely before delivery. This gives you many pots to use for other stock. Fill in the bottom with broken pieces of sod and fertilizer. Sheep manure and bone meal mixed is good. When you fill orders don't get all colors in the same box. Pink and white is good, or light blue may go in. Scarlet and white go well with yellow. If you put in a plant with a quarrelsome color, such as a petunia, surround it with dusty miller and separate it from other colors. Use the same care as in making floral arrangements. When you deliver, present your customer with a paper bag of earth well fertilized, with written instructions placed in an envelope instructing them to water freely, keep all old flowers picked off and spread the contents of the bag over the surface of their box in six weeks, this will keep the plants growing and your enterprise will be highly appreciated.

There is a time in summer and fall when every florist who uses white carnations is worried because he cannot get them as wanted. This happens every year, but you can avoid it by arranging from fifty to two hundred plants of Souper roses, now in 3 inch pots, and within two





STORE OF ALEX. PARKS, NORTHAMPTON, MASS.

or three weeks, as soon as some bench room can be provided, plant them out. Give them rich soil and you will have quantities of flowers from July 1 to November 1. The fresh shoots are very delicate and a pretty pink, suitable for many purposes. When a day old they can be cut short for covering in design work, as they fade to a white so delicately tinted as to be quite desirable. There is a fresh crop every day during bright weather. You can easily keep this bench going until your early white chrysanthemums come in.

Azaleas are, of course, done blooming, and those unsold should be taken care of properly and immediate attention is necessary for proper care. They should be making good young growth now, on which next year's buds are formed very soon. If they do not develop properly now no amount of coaxing will revive them after a few weeks and if wilted badly at any time the result will be unsatisfactory. It is not a plant that dislikes sun, but it requires moisture and cool roots. While we have no good method of "sub-irrigation" for these plants we are obliged to give them shade, a roof of slats, a floor of ashes or gravel, with pots partly buried and water convenient. It is best to have a wall on two sides to prevent a direct circulation of air during the very hot and dry months of July and August.

Some of us have regretted that we did not have some good hybrid perpetual rose plants for this last Easter. If you want them for next season provide them right now. You can, of course, get them of nurserymen in the fall, but unless you are an expert of more than ordinary skill a field-grown plant will not please you. Get them now; grow them in pots all summer and dry off just as those in the garden dry off. You will be reminded in October of what to do then. Baroness Rothschild, Crimson Rambler and Gen. Jacqueminot are good varieties.

Your first batch of gladioli for outside should be in before this. Any deutzias, spiræas, or other shrubbery desirable for pot growing should be propagated now.

C. B. W.

#### Store of Alexander Parks, Northampton, Mass.

This is a typical country florist's store, in fact has never been fitted for Mr. Parks, who took it because he could find no other; but although the store may have a rural appearance, there is no hayseed on the proprietor, who in the three years which he has been in business, has built up a large and increasing trade, to which only first class goods are supplied.

G. W. T.

#### New York.

THE WHOLESALERS HAVE TROUBLE.—BUSINESS VERY DULL.—FINANCIAL LOSSES.—GREEKS SUSPEND PAYMENT.—FINE ROSES.—VIOLET MARKET GONE TO PIECES.—SCHULTHEIS' SUCCESS.—CRIMSON RAMBLER A FAVORITE.—LOCAL LINES.

The New York cut flower wholesalers' life since Easter has been anything but pleasant. Never before in the time immediately following Easter has business been so lifeless. War prospects are, no doubt, responsible in part for the unsatisfactory state of affairs now prevailing and which is likely to continue for the balance of the spring. The growers, however, seem to place the responsibility on the wholesalers, and so the present week has seen many changes and transfers of stock from one commission dealer to another, although it is not evident to a disinterested observer what advantage is to be gained by this course. The truth is simply that there are far more flowers daily received in this market than the limited demand can possibly assimilate. The wholesaler is powerless to alter this fact, no matter what street he does business on.

Another severe punishment the wholesalers have had to submit to during the past week is the suspension of a number of Greeks, who have been conducting pretentious establishments up town. John Kovatzos, of 125th street, and Polykranas & Stravopulo, of Columbus avenue, are the two most prominent failures. The mode of procedure followed by these people in such cases is to "sell out" to others

of their countrymen; the name on the window is changed, and "what are you going to do about it"? Greeks with \$100 bills and rolls of smaller denominations infested the wholesale districts in the days preceding Easter and carried things with a high hand generally, getting credit not only from the cut flower dealers but from the big plant growers as well. The prices the Greeks pay for cut flower stock leave very little margin to spare for bad accounts, and as most of the wholesalers have been stuck for a good-sized amount, in this instance their feelings toward the whole race of Greeks are decidedly warm. The influx of these foreigners into the flower trade here is a menace to the business in many ways, and is as unfortunate as it is unavoidable.

Much of the stock now coming in is of poor quality and is unsalable at any price, but the good material fares only a little better. Such Jacobs as Wiegand's and such Brunners as Zuber's which Thos. Young, Jr., receives, are rarely seen and have never been excelled for quality in this market, but they move slowly and at prices ridiculously low, and high-grade Beauties are equally unsalable. Carnations, at moderate figures, are selling fairly well, the supply being very limited. Violets came to the finish of their prosperity at the middle of last week, when the demand stopped short, and since then it has scarcely paid to pick and ship them.

The quality and variety of Easter flowering plants sent in by Schultheis, of College Point, would indicate that it will not be very long before this enterprising grower will become a formidable rival for the two or three big fellows who have had a monopoly of this trade hitherto. Looking back over the Easter report, nothing is more striking than the popularity which the Crimson Rambler rose developed from the start. Next season will undoubtedly see an enormous number of them forced. Crimson Rambler has caught on.

Wippermann, of Brooklyn, has taken the store on Nostrand avenue lately occupied by Rudolph Jahn, and will run it as a branch. He reports business as exceptionally good this spring.

The horticultural buildings for Bronx Park will be erected by Hitchings & Co., whose bid went in through a local contractor and stonemason, J. R. Sheehan. The plans were drawn by Lord & Burnham.

The marriage of Miss Frances, daughter of Charles Thorley, which took place on Thursday, 21st inst., was the notable event of the season.

Chas. Lechner, with Suzuki & Iida, will sail on a European trip on the Travenex Tuesday.

George H. Parsons, superintendent of Parson's nursery, Flushing, died suddenly Tuesday, April 14, aged 49 years.

#### Philadelphia.

THINGS MOVING ALONG AS USUAL AFTER THE RUSH.—BUSINESS FAIR.—INDECISION AS TO GROWING LILIES FOR NEXT YEAR.—HORTICULTURAL SOCIETY AND THE CLUBS.

Things are moving along as usual after a busy rush. The left-over stock has been sold or gone out of flower and, in case of anything worth keeping, been sent out to the nurseries for another try next year.

Business has been fair the past week, although there has not been as many spring weddings as the boys would have liked, there have been a few good decora-

tions, but most of the affairs have been of the quiet order. Good stock is plentiful and cheap. Really fine Beauties have been sold very low, good flowers with stems twelve inches long being offered by the fakirs at two for 5 cents, and they are to be seen carrying great armfuls of long-stemmed roses, which are offered at correspondingly low figures. Brides and Bridesmaids are also plentiful and sell at very low prices, in quantity. Carnations are slightly ahead of the demand, although there can scarcely be said to be a glut. Bulbous stock is about over, although a few outside daffodils and tulips are still to be had. Quite a lot of belated lilies are being offered at low figures.

To plant, or not to plant lilies for next Easter's trade, is bothering growers at this time. The bulb men are after orders; they are always at it. The Japanese longiflorum man says, "plant the Japs. and avoid the diseases." The Bermuda dealer says, "Easter is early next year and you won't get them in in time. Don't run any such risk, plant ours," and so it goes. The bedding plant growers are busy filling up the room made by the Easter stock and getting ready for a good spring trade. Planting out has commenced in sheltered situations, although it is not considered safe until after May 10.

There is a good demand for Crimson Rambler for planting out, but it will not be generally popular until next season. Prices for plants in pots range from 50 cents to \$1.50 at wholesale.

The meeting of the Penna. Horticultural Society, held last Tuesday, was fairly attended. Some very pretty, in fact, fine pansy flowers were exhibited. They were the Dreer strain and would earn prizes at any flower show.

Mr. Clinkaberry, gardener to Mr. Koebing, of Trenton, exhibited some new orchids. A *Lelia* cross between *L. purpurata* and *L. cinnabarina*, buff yellow with a crimson purple tip, was awarded a silver medal. There were several others, but we refrain. A personal inspection of these jewels of the flower kingdom, is far better than any description of ours and perhaps we might get ourselves into trouble, not knowing the carats accurately enough to judge of their weight. The meetings of the society should be more fully attended; there is always something on exhibition or that transpires to repay one for the visit.

The Florists' Club is to have another theatre benefit in May. The Telephone Girl is to be the attraction, and all will, no doubt, avail themselves of the opportunity to closer inspect this much alive, but heretofore invisible lady. The shad dinner also matures in May, so that we promise to have a lively time next month.

There is some talk of the Gun Club offering their services to Uncle Sam as sharp shooters, their record the past winter surely should insure them a place in the front rank.

#### Boston.

BUSINESS DULL SINCE EASTER—SOME UNPLEASANT EASTER EXPERIENCES. STOCK ABUNDANT AND PRICES LOW.—A MEMORABLE VISIT TO SASHUA.—NEW CYPRIPEDIUMS.—ANOTHER LANDSCAPE GARDENER.

Business has been unexpectedly dull in the flower trade since Easter. Nursery men and those florists who do something in the nursery and outdoor gardening line have been blessed with all the work

they could attend to, but the flower trade proper has not shown up as it should. The plants left over from Easter—and most of the city establishments, at least, had some left over—are still on hand looking much the worse for wear and with poor prospects of doing any better. Some of the surplus lilies have been used up in cut flower work, but unfortunately there has been little of the kind of work that they would fit. Even the out-of-town growers, who managed to dispose of all their Easter stock to the city establishments in advance and were very complacent in consequence have reason now to change their mind, for quite a number of them were beguiled into giving credit to a plausible individual who opened a store temporarily on Tremont street and from whom they now find it impossible to collect. Of cut flowers coming in there is a fine variety, excellent in quality and more than sufficient in quantity. Violets only seem to run short, and as trailing arbutus is now abundant the passing of the violet will not cause serious inconvenience. Roses of all kinds are abundant and cheap; carnations have descended from their pedestal and once more mingle with the common people; bulbous stock of all kinds is overstocked and lilies are the cheapest kind of stock; mignonette, marguerites, mosotis, snapdragons, swainsona, heliotrope, primroses and nasturtiums are seen in abundance in all the windows and an occasional bunch of Blanche Ferry sweet peas adds to the variety.

Hon. C. W. Hoitt entertained a large party of his horticultural friends at his residence in Nashua on Thursday, April 14. A ride about the town was first enjoyed and then the hospitable doors of the "Hermitage" were thrown open and Mrs. Hoitt with her father and mother, Mr. and Mrs. Gilman, assisted the host in welcoming his guests. Judge Hoitt is a past master in all that pertains to the art of entertaining, with few equals and no superiors, and those who had the honor of partaking of his generosity on this delightful occasion will carry the recollection of it always as one of the brightest spots in their memory. "The house is yours," was the first word heard on arrival, and every individual was made to understand the sincerity of the remark every moment of his stay. And—make a note of it—there were no speeches.

At Horticultural Hall, on April 16, J. E. Rothwell was awarded a silver medal for *Cypripedium niveum grandiflorum* and a certificate of merit for *Cypripedium T. W. Bond*, the result of a cross between *C. Curtisii* and *C. hirsutissimum*.

Mr. Bruton, who comes with the benefit of a thorough training at Dickson's Royal Nurseries, Chester, England, has opened an office in Boston as a landscape gardener and importer of hardy perennials. His father, Mr. John Bruton, will be associated with him and his brother will attend to the exporting business on the other side.

The store of P. W. Firth, on Meridian street, East Boston, was damaged by fire on the night of April 17, to the extent of several hundred dollars.

The annual dinner of the Gardeners' and Florists' Club will take place at Horticultural hall, Tuesday, May 3.

Visitors in town H. S. DeForest, representing Hitchings & Co., New York; Samuel Burns, representing Thos. W. Weathered's Son, New York; and Peter Ball, Covent Garden, London, England.

#### Chicago.

OBSEQUIES WHICH MAKE MANY WEEP ARE A SAVING CLAUSE IN THE PAST WEEK'S TRADE REVIEW.—LARGE ADDITIONS PLANNED BY SEVERAL LOCAL GROWERS.—SUICIDE OF L. C. FARWELL.—PERSONAL MENTION.

The most notable feature of the past week's trade was the remarkable number of large funeral orders that were received. The latter part of the week several large orders for flowers came from St. Louis for the Busch funeral which occurred on Wednesday. The funeral of H. W. King, an old time and wealthy resident, kept a number of florists busy Thursday and Friday. At the funeral of Hubert Morris, the prominent young club man and son of Nelson Morris, the packer, which took place on Sunday, more flowers were used than at any other funeral in the history of Chicago. Three or four florists had all the work they could attend to for this funeral, and nearly every florist had orders for more or less flowers for it. A number of very handsome designs were made up, and I wish to note in this connection that more designs are ordered for funerals and not so many flat bouquets as formerly.

Since Monday business has been remarkably dull; only a small portion of the flowers received this week has been sold.

Victor Brothers have just completed a range of five houses, each 20x130 feet, which they are now planting with American Beauties. This is but a small portion of the addition they contemplate making to their establishment this season.

There are several growers around Chicago who have made arrangements to make additions to their places of from 10,000 to 100,000 feet of glass. The prospect of war does not seem to deter the growers from building greenhouses.

It is reported that the Chicago Floral Co.'s greenhouses at Thirty-eighth street and Grand boulevard, which are the oldest and were for several years the largest in the city, are to be taken down and moved this summer.

Luther C. Farwell, manager of the greenhouses at Oakwoods Cemetery, shot himself at his home on Lake avenue on Tuesday, April 19. He was 27 years of age, and had been in poor health for some time. Dependancy is given as the cause of his suicide. Farwell is a brother of Frederick M. Farwell, president of the Oakwoods Cemetery Association, and the family owns the greater part of that beautiful burial ground.

Louis Hunt, of Terre Haute, Ind., was in the city this week.

E. H. Hunt, who has been sick for several weeks, is improving, and hopes to get down to business in a few days. Walter Hedron, who for the past two years was with Mr. Hunt in the cut flower department, is now with E. C. Amling in a similar capacity. Mons. Olsen, the old-time wholesale florist, who for several years was with Reinberg Bros., now presides over the cut flower department for Mr. Hunt.

John Pochlman, who has been sick with typhoid fever since Easter, is improving.

O. J. Friedman is very sick with typhoid fever.

O. P. Basset is at West Baden, Ind., for two weeks. Flint Kennicott starts for the same place to-day.

Visitors J. Blaauw, representing J. Blaauw & Co., and P. M. Koster, of Koster & Co., both of Boskoop, Holland.

## THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.  
Subscriptions accepted only from those  
in the trade.

Advertisements, 10 Cents a Line, Agate;  
\$1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;  
26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

We have to thank Mr. C. W. Sibley, of Athol, Mass., for a well-filled box of may-flowers. In fragrance and color the flowers were exquisite.

PRESIDENT S. T. Betts, of the Central New York Horticultural Society, mailed his friends a pretty Easter card last week, the AMERICAN FLORIST among the number.

AN ANNUAL DAFFODIL exhibition is held in the Isle of Wight. At the exhibition just closed Messrs. Barr & Sons staged nearly 200 vases of this flower.

STEAM LAWN MOWERS are being quite largely advertised in the English papers. We believe there has been no attempt to put them on the market in this country as yet. Our English cousins are a little ahead of us in this respect. To an American, the cuts and descriptions of the English mowers are quite amusing. They are uniformly heavy, complicated affairs, the 21-inch machine requiring two men to operate it, while the new models of all-steel American mowers, in 21-inch widths, can be readily operated by one man. Perhaps this explains why they use steam.

### Cut Flower Price Lists Received.

H. L. Sunderbruch Co., Cincinnati; Ellis & Pollworth, Milwaukee; Basset & Washburn, Chicago; Kennicott Bros. Co., Chicago; Vaughan McKellar & Winterson, Chicago; W. A. McFadden, Cincinnati; City Hall Cut Flower Market, Boston; Wm. F. Kasting, Buffalo; Holton & Hunkel Co., Milwaukee.

### Greenhouse Building.

North Easton, Mass.—Oakes Ames, one palm house, 35 x 35; one cattleya, cypripedium and cool orchid house, each 20 x 44. Lord & Burnham, builders.

South Lancaster, Pa.—E. V. R. Thayer, one greenhouse, 40 x 100.

Oneida, N. Y.—J. C. Grems, one commercial house.

Fitchburg, Mass.—C. E. Mansfield, one commercial house.

Monroe Bridge, Mass.—Ramage Paper Company, one greenhouse.

West Chester, Pa.—M. Meyer, six greenhouses.

Holbrook, Mass.—A. Belcher, range of greenhouses.

Rockland, Mass.—W. D. Arnold, one greenhouse.

Middlebury, Vt.—Herbert Bros., one greenhouse.

Lewiston, Me.—E. Saunders, one commercial house.

Watertown, Mass.—J. Hittinger, range of forcing houses.

Fairhaven, Conn.—S. T. Bradley, one carnation house, 16 x 70.

Bar Harbor, Me.—J. Montgomery Sears, one conservatory, 10 x 34.

Middlebury, Vt.—Hunt Bros., one greenhouse

### Steam and Hot Water Heating.

#### PART III. CUTTING AND CAULKING CAST IRON PIPES.

Although it appears quite difficult to cut cast iron pipe even and square without breaking or cracking the lengths, with a little practical experience, using the proper methods, it is in reality an easy and simple matter. There is no better way to tell a good or bad quality of cast iron pipe than by cutting it in two. And the better the quality of the iron the quicker and the more safely it can be cut. A good quality of cast iron pipe is soft, but tough, and will stand greater strains and is less liable to cracking than pipe of a harder nature. Consequently the best quality is the cheapest for all concerned. It can be handled in transportation from the foundry with less breakage. It can be handled, cut and fitted by the pipe fitter in less time than it takes to do the same amount of work with pipe of a cheaper quality.

A cheap quality of cast iron pipe is never soft, so that this is a very good rule to go by in the selection. With the proper tools, good cast iron pipe can be cut, as the practical man calls it, like cheese, and there will be scarcely any danger of cracking. For the practical work of cutting and caulking there are only a few tools necessary, but it is well to have duplicates of these. With a good set of tools there is no great difficulty in executing the best class of work. Therefore this is a matter that should receive special consideration. A good hammer should always be among the set of tools, and for this purpose there is none better than what is known as the machinists hammer, of the pattern shown in the accom-

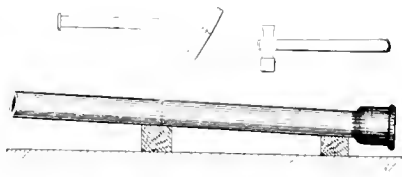


FIG. 1.

panying illustration, fig. 1. Cape or diamond pointed chisels are used as a rule in cutting cast iron pipe.

The illustration, fig. 1, shows one way in which a pipe joint should rest while it is being cut. At the point to be cut the pipe should rest on some solid support in the shape of a block of pine wood. This supports the pipe in such a manner that the blow affects no other part except the point that is being cut. It is a good plan to carefully mark the pipe all around where it is to be cut off, so as to follow this line with the chisel, although the average experienced mechanic can cut a perfect line around such pipe without having a mark to go by. It is not necessary to go deep into the metal; a depth of an eighth to three-sixteenths of an inch will generally be sufficient, and this cut must extend all around the pipe. The diamond nose chisel which is used more especially for this work is V shaped at its lower point, and therefore makes a V shaped cut. This style of chisel is the best for this purpose as it clears itself besides cutting deep, and removes but little metal. This part of the cutting being done on the joint of the pipe, if it does not fall apart after the cut has been made all around, a cold chisel is then used to make the cut deeper and it will be found that a few blows from the hammer

and cold chisel, a few inches apart around the cut, will cause the pipe to fall asunder. For this work the chisels must be sharp, and well tempered, and should be made of the best refined tool steel. There have been many attempts at making pipe cutters for cast iron pipe, but so far as the writer knows, there has never yet been

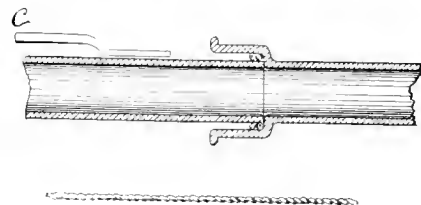


FIG. II.

one that has proved successful, and the old chisel and hammer are still the best far this important piece of work, notwithstanding the great advancement made in every branch of the various mechanical trades.

The joints of cast iron greenhouse hub-joint heating pipes are caulked usually with iron borings, or filings, and are called rust joints. The sectional view of a hub-joint is shown in fig. 2. In making these joints a few strands of tarred rope are twisted together and inserted into the hub, forming a ring all around the bottom. Selected oakum is also used for this purpose. The rope is driven tight into the hub by a caulking chisel, which has a blunt end, and is bent in shape as shown at c, in fig. 2. The rope being tightly caulked into the hub, the next operation is to partly fill the hub with cast iron borings, which is made wet, or moistened with salammoniac water. A second layer of the rope packing is sometimes used over the first layer of iron borings, and then the joint is finished with iron rust again on the outer end. This is all carefully caulked with a blunt tool and hammer, but must not be made too tight or too solid, as these iron borings moistened so as to rust quickly, expand in solidifying, and if care is not exercised the hubs will crack from the pressure due to expansion.

There are specially-prepared compounds in the market for the caulking of greenhouse heating pipes which are applied in the same general way as described above, and from observations by the writer answer the purpose in a very satisfactory manner. Cast iron hub joint gas and water pipes are usually caulked with molten lead, first being packed with rope, or picked oakum, as in the above cases, but for hot water pipes, which are continually undergoing great changes in temperature, the lead would not prove satisfactory, for the reason that it would soon become loose from expansion and contraction, and allow the water to leak at every joint in the system.

JAMES J. LAWLER.

THE Elizabeth Nursery Company has been awarded the contract for supplying trees for the public parks of Paterson, N. J. this season.

PROVIDENCE, R. I.—Thomas W. Weathered's Son has the contract for the new greenhouses to be erected at the North Burial Ground.

TOLEDO, O.—W. W. Hicks entertained the Florists' and Horticulturists' Society on April 14. Mr. Tracy was the essayist of the day and read a practical paper on spraying.

Grafted Roses.

"What's all this talk about grafted roses? There is nothing new about them?" Thus spake an old-timer only a day or two ago. It is true there is nothing new about grafted roses; for all novelties, no matter whether they are teas, hybrid teas, or hybrid remontants, or what not, are invariably grafted on one or the other of the stocks now in use, because with the limited number of "eyes" on hand, and the high prices at which they are sold, grafting is the most expeditious and economical method of working up a stock of a new rose.

In Europe, whence most of the novelties in roses come, they have a variety of stocks that are used for the purpose indicated; namely, *Rosa canina* (the English briar), which is said to suit some of the varieties best, and the *Manetti*, which we are told is a wild rose introduced from Italy, and is the one which is being generally used at this time in America on which to graft some of our most popular roses for winter forcing.

There are other stocks on which to bud or graft roses, and it may be necessary to experiment somewhat in order to determine which is best for certain varieties and different soils. The *De la Grifferie* is used to some extent in Europe, and it is believed by many to suit some varieties best, especially the teas. *Rosa Carolina*, a native of this country, I believe is largely used in the lowlands of Holland for budding purposes, and the roses resulting from the union are much in evidence in many of the department stores here in these days. It must be the best for moist lands; but it frequently fails to render a good account of itself when planted out in this country, just because it does not receive sufficient water, and on account of the uncongenial environment.

There are quite a number who intend to give the grafted stock a trial next winter, and the results will be watched with keen interest by the rose growers for cut flowers in general. There will be some failures no doubt, or rather, perhaps, the difference will not be sufficiently profitable to warrant going to the additional expense in the purchasing of stock for planting. However, it is all in the line of progress, and notwithstanding the fact that there is nothing new about grafted roses, the way in which it is being adopted in this country at this time may be considered comparatively new.

E. L.

An Easter Incident.

I am a rose grower and dispose of my buds at wholesale. On Saturday, the day before Easter, a lady drove into my place and inquired for Easter lilies in pots, to put upon her little baby's grave. I had to say that I did not have any, when I bethought myself that a near neighbor might have a few left. I hesitated about sending the lady to him, because he was not acquainted with her nor any of the circumstances in the case, so I went myself. It was early in the afternoon, and the neighbor was busy cutting everything in sight for his second trip among the dealers. Immediately upon my stating my errand he promptly said: "Pick 'em out where you like 60 cents a piece."

They were a good looking lot, spindling and averaging three flowers to a plant and growing in 4 inch pots. The stakes though heavy and strong were not nearly long enough, consequently the stems topped around a good deal. In order to gratify the good lady's wish, I ordered

some, and being happy because I was accommodating her lost sight of the price asked. Fortunately, or unfortunately, the lady did not inquire the price but ordered the plants to be sent as soon as possible. New and larger stakes had to be provided, also some five inch pots, and after the excitement had subsided and the plants had been dispatched, I proceeded to enter the charge in the day book, when it dawned upon me that I had had my leg pulled and in consequence I have been walking with a decided limp ever since.

I tried the regulation methods and made a charge of \$1.20. I could hardly get a wink of sleep that night thinking of the profits I had made on that sale, so I have compromised and made a charge of 75 cents. That is yet an awful high price for such poorly grown plants. Honestly I never saw such poor stock offered for sale at Easter or at any other season. If it was not for the dreaded disease I would go into lily growing myself. Next year if I do not have any lilies, I will unhesitatingly say so, and I won't know whether my neighbor has any or not. He is like the farmer who was relating to a stranger that he was getting \$4.50 a dozen for his eggs. "Isn't that kind of high?" inquired the stranger. "Yes," said the farmer, "it is, but I need the money."

So it is with this lily grower, for a few evenings before he and some friends met and had "a little game." Along toward quitting time there was a "jack-pot" which he opened for the limit and drew two cards. There were others who also drew two cards. The betting was fast and furious until two only remained in the game. Finally a show down was paid for, and the man who quoted *Lilium Harrisii* at 60 cents each, held four sevens to the other man's four eights. Is it any wonder he is endeavoring to replenish a depleted exchequer? E. D. W.

It Never Fails.

ED. AM. FLORIST.—The advertisement in the AMERICAN FLORIST has brought me a fine position with Mr. C. H. Kunzman, 3710 High Avenue, to which address you will please send my copy of the paper. JOHN C. RUYSENAARS, Louisville, Ky.

COLUMBIA, S. C.—A highly successful floral festival was held here April 21.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED By an experienced grower of rose cuttings, manna and bedding plants; age 25. J. HANK 716 Third Ave., Brooklyn, N. Y.

SITUATION WANTED By florist 22 years experience. First-class references as head gardener; German age 55. Address Box 14 Dunellen, N. J.

SITUATION WANTED Assistant private or commercial place, 3 years general experience, age 25. References. State wages. GEO. SEY, Lincoln, Neb.

SITUATION WANTED By a practical grower of flowers—manna, carnations, violets, tomatoes, cucumbers and other plants. Best references, married, no children. F. F. ROSEZ, 5 Biltmoreville, Lancaster City, Pa.

SITUATION WANTED By young German of good habits as apprentice in a commercial place; truly able and willing to work for small wages in the beginning. A first-class or visit is preferred. Address stating wages particulars. H. H. 33, care Am Florist.

WANTED An able and greenhouse man, married. Wages to inquire. JACOB MEYER, Morton Grove, Ill.

WANTED A gentleman who understands the seed business, state wage nationally and wages expected. N. S., care American Florist.

WANTED—Good florist for greenhouse work; steady position for the right man. GARFIELD PARK FLORAL CO., 1888 W. Madison St., Chicago.

WANTED—Three or four first-class men for working in palms and stove plants. Wages no object to right men. Send copy of references. Address S. P. H., care American Florist.

WANTED AT ONCE—Good florist for general greenhouse work. Wages \$30 per month with board, and increase when satisfactory. HILLSDALE FLORAL PARK, Hillsdale, Mich.

WANTED—By May 1st, a florist, German and single preferred. Must be a good, all-round man, with some knowledge of design work. Will pay \$25 per month, including board and washing. BOLANZ BROS., Akron, O.

FOR SALE—Greenhouses on principal street in the city. For particulars apply to J. H. REBSTOCK, 84 Male St., Buffalo, N. Y.

FOR SALE—Florist's single covered wagon; height about 5 feet, width about 4 feet, length about 7 1/2 feet; built to order, costing \$350. Used but 2 years. Will be sold cheap for cash. VAUGHAN'S SEED STORE, Box 688, Chicago.

FOR SALE—The greenhouse establishment of Schiller & Kuske, formerly Schiller & Mallander, is offered for sale at a great sacrifice. \$300 will buy 2 1/2-30 acres of valuable ground, 23 greenhouses, comprising 66,000 square feet of glass; wells, 2 nice dwelling houses, sheds, etc., located in the village of Niles Center, about 12 miles from the heart of Chicago; 1 1/2 miles to depot. Terms, \$500 cash, balance on time; livestock. Address correspondence to Poehlmann Bros., Morton Grove, Cook Co., Ill., or Herman Schiller, 820 W. Madison St., Chicago.

WANTED AT ONCE

A good all-around greenhouse man; young; single; one who is not afraid of work; wages \$20.00 to \$30.00 a month with board and room, according to ability; steady work the year around; references required.

CRAMER, The Florist, SALT LAKE CITY, UTAH.

FOR SALE

Six Greenhouses; about 14,000 feet of glass, well stocked; wholesale and retail; town of 4,000; no competition; less than one hundred miles of Chicago; two railroads. For particulars address

"A," care American Florist.

FOR SALE OR RENT

VERY CHEAP.

I offer for sale or rent my undivided half interest of the real estate of the greenhouse property formerly known as Schiller & Mallander situated in the village of Niles Center, about 12 miles from business center of Chicago and 1 1/2 miles from Morton Grove R. R. Depot. The property consists of 23 greenhouses, 2 dwelling houses, barns, wells and necessary sheds on 2 1/2-30 acres of land. Invaluable. Price for undivided half, \$1,000; terms \$1,000 cash; balance payable in seven yearly installments, secured by mortgage notes bearing 8 per cent. interest. Or will rent or lease to some responsible party for a term of years at an annual rental of \$1,000 giving option to lessee to buy my interest for above stated price, provided that said lessee will make repairs the first year to the extent of \$1,000. Will acquire deed to property May 18. Address

MRS. B. KUSKE,

Care Poehlmann Bros., Morton Grove, Cook Co., Ill.

EXECUTOR'S SALE

Fine Specimen, Ornamental and Japanese Plants. Rare Orchids, Vases, etc., at the Hayes Estate "Oakmount,"

Lexington, Mass.

SATURDAY, APRIL 30, 1898 AT 10 A. M.

All the plants on this large estate, Azaleas, Rhododendrons, Palms, Bay Trees, Orange Trees, Rubbers, English Holly, Hydrangeas, Agaves, Dendrobiums, Cactogonies, etc., etc.

One of the finest collections of plants ever offered for public competition. Can be seen on and after April 29. Terms cash; deposit required. Trains leave Union Station, Boston, at 8:17, 9:17 and 10:17 A. M.

Friday, April 29 at 10 A. M. the furniture, paintings, china, bric-a-brac, etc., will be sold

EDWARD HATCH, Auctioneer,

22 DEVONSHIRE ST., BOSTON

**Hardiness of Ampelopsis Veitchii.**

ED. AM. FLORIST: Should like to hear through the columns of your paper whether the Ampelopsis Veitchii is a satisfactory hardy climber in this state. I have heard it will not grow well here and is only satisfactory near salt water.  
CHAS. A. MOSS.

I have grown Ampelopsis Veitchii in Iowa for over twenty-five years and now have a specimen growing to the roof of a two-story brick building. For some reason they are not reliably hardy here. They die to the ground every four or five years and sometimes die outright. I have tried them on every side of a building and they act the same. Twenty years ago I had them completely covering the east side of a church thirty feet high, but they are all dead now. J. T. TEMPLE.

**A Red Flag**

Is hung out every Tuesday and Friday. Florists who want to buy and Florists who want to sell meet on common ground at . . . . .

**CLEARY'S AUCTION ROOMS**

60 Vesey Street, NEW YORK.

New York's Floricultural Center.

**N. Y. CUT FLOWER EXCHANGE**

404-412 E. 34th St. Near Ferry. Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

**HOLTON & HUNKEL CO.**

SUCCESSORS TO

The Wisconsin Flower Exchange.

Fresh Cut Flowers, Florists' Supplies  
Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 974  
457 Milwaukee St., MILWAUKEE.

**ROSES..**

2-in. per 100 3-in. per 100  
Am. Beauties .. \$5.00  
Perle ..... \$2.75 4.50  
Bridesmaid ... 2.75 4.50

MAPLEWOOD CUT FLOWER and PLANT CO.  
PLEASANT HILL, MO.

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long,  
50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

**Memorial Rose**

(Rosa Wichuriana)

Strong field-grown plants,  
\$50, \$75 and \$100 per 1000

SAM'L C. MOON,  
MORRISVILLE, Bucks Co., PA.

**Wholesale Flower Markets**

CINCINNATI, April 21.

Roses, Beauties, select	25 00@35 00
medium	10 00@20 00
Brides	4 00@5 00
Bridesmaids	4 00@5 00
Meteors	5 00@6 00
Perle	3 00@4 00
Carnations	1 00@1 50
fancy	2 00
Daisies	25@ 35
Lily of the valley	1 00@ 3 00
Sweet peas	1 00@1 50
Harrisl	10 00@12 50
Callas	8 00@10 00
Smilax	12 50
Adiantum	1 25
Asparagus	40 00

ST. LOUIS, April 21.

Roses, Beauties	3 00@35 00
Meteors	3 00@10 00
Brides, Bridesmaids	4 00@10 00
Perle	3 00@6 00
Kaiserin	4 00@10 00
Carnations	1 00
Violets, California	1 00
Lily of the valley	2 00
Harrisl	15 00
Callas	10 00
Tulips	3 00@5 00
Narcissus, Romans	1 00@2 00
Smilax	15 00@20 00
Freesia	2 00@2 50

MILWAUKEE, April 21.

Roses, Beauties	15 00@35 00
Brides, Bridesmaids	3 00@5 00
Perle	3 00@4 00
Meteors	3 00@5 00
Carnations	1 00@2 00
Violets	75@1 00
Tulips, Daffodils	2 00@3 00
Lily of the valley	3 00@4 00
Misquerites, white	75
yellow	75@1 00
Hyalcnths	3 00@4 00
Callas, Harrisl	8 00@10 00
Smilax	15 00@18 00
Adiantum	75@1 00

BUFFALO, April 21.

Roses, Beauties	10 00@40 00
Brides, Bridesmaids, Meteors	4 00@8 00
Perle	3 00@5 00
Niphotos	3 00@5 00
Kaiserin	4 00@8 00
Carnations extra	2 00@3 00
ordinary	1 00@2 00
Lily of the valley	3 00@4 00
Violets	75@1 25
Hyalcnths	75@3 00
Harrisl	8 00@10 00
Callas	7 00@10 00
Tulips	2 00@3 00
Daffodils	40@ 50
Smilax	15 00
Adiantum	1 00@1 25
Asparagus	50 00@75 00

**Flowers And Business**

20 cents enclosed in stamps will bring you samples that will interest you.....

DAN'L B. LONG, Publisher,  
BUFFALO.

COMPLETE LINE OF SUPPLIES  
WIRE WORK  
WE CAN MAKE  
IMPORTERS OF  
BULBS  
PHONE 1270  
BOX 75  
ALWAYS ON HAND FINE STOCK CUT FLOWERS  
ELLIS & POLLWORTH  
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ASHES CHEAP.  
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Kaiserin.....	2.50	22.50
Belle Siebrecht.....	2.50	22.50
Smilax plants.....	2.00	15.00

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" Morgans, Meteor.	.50@5.00
Carnations	1.00@1.50
fancy	1.50@3.00
Lily of the valley	1.00@2.00
Sweet peas per 100 bunches	8.00@10.00
Daffodils, Tulips	.50@1.00
Violets	15@.35
Harrisll, Callas	4.00@5.00
Asparagus	40.00@50.00

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Roses Beauties	10.00@35.00
" Brunners	6.00@25.00
" Morgan, Meteor.	4.00@6.00
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Carnations	1.50@2.00
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Lily of the valley, Daffodils, Tulips	1.00@2.00
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The San Jose Scale.

ED. AM. FLORIST:—In North Carolina a peach orchard of 400 acres was treated with pure kerosene according to the recommendations of Dr. John H. Smith. On the 12th of January, 1898, the owner reported to the United States Department of Agriculture that 90% of his trees had been killed by the application.

Kerosene was applied to several varieties of fruit, ornamental and forest trees at the Ohio Agricultural Experiment Station, for the sole purpose of determining definitely the effect of pure kerosene, applied during a hot, sunshiny day in September. The result has been that peach and plum to all appearances are dead. On the condition of the other varieties of trees, it is deemed best not to make any statement until they have had an opportunity to put forth foliage if they do at all.

It is very unfortunate that it was this same Dr. Smith who a couple of years ago very highly recommended the use of dendrolin, to be applied to trees to protect them from insect attack. According to all reports received up to date, not only from individuals, but from experienced station workers, this has almost invariably killed the trees wherever it was applied. It would not seem that this was just what we would expect from following the advice of a scientific man, and will certainly create suspicion that statements coming from the same source with reference to this San Jose scale will not be more reliable.

We know that the San Jose scale in Ohio to-day threatens to be the most dangerous insect enemy the state has yet known. R. H. WARDER, Cincinnati, O.

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**Milwaukee.**

BEAUTIFUL CINERARIAS IN FOREST HOME CEMETERY.—HOW M. B. CURRIE GROWS THEM.—TALK OF CREAM CITY EXPERTS.—NOTES.

James Currie, Jr., was recently asked how the Forest Home cemetery produced such beautiful cinerarias as were seen and admired the last two seasons. We have read lately that this plant was worthless, but the party making such a claim never saw Mr. Currie's plants. They were a grand sight, and no commercial grower would regret having a number of them left on his hands. Mr. Currie gave me concisely the points for producing such a stock. Seed is sown in the first week of August, plants are pricked off into flats as soon as large enough for handling in rich, light soil, so as to take out easily for potting; as soon as four character leaves show put in small pots; keep shifting until 7-inch pots are filled; at no time allow them to become pot-bound, neither must they be allowed to wilt. One common mistake, he says, is to set them too close, so that they cannot develop the foliage perfectly, and without good foliage flowers will not be good. Another mistake is to permit the temperature to go above 45°. When the leaves are large cinerarias are apt to be troubled with green fly. To avoid this cut tobacco quite finely and lay it over the benches between the pots. Keep plants well up to the light. When buds are forming it is well to cut out a few of the leaves; the flower stalk will then develop larger.

Frank Dilger happened in while we were talking, and the conversation turned to Iris Hispanica and ixias. Mr. Dilger is an enterprising grower and is awake to the modern demands. These irises are beautiful. The flowers are easily handled and sell quickly. I don't know how they pay and didn't ask, but the bulbs are very cheap and Frank would not be discarding roses to make room for them if there was not some profit in them. He says he is pleased with results, but thinks he can improve another year. When bulbs arrive from Holland he puts them into flats and stores them away like hyacinths for rooting. He does not bring them into heat until February, and then only to a temperature of 45°. After they make a good growth he moves them into a warmer house. They want rich soil and should not wilt. The bloom appears in about nine weeks after they are brought into warmth. If they are brought in too early they fall right over as if they were cut. Mr. Dilger favors growing the mixed varieties, because they are early and late together. He puts them in closely and the early ones are cut out before the later ones require light. Mr. Dilger has other uncommon bulbs with which he will surprise this market next season. When asked how to grow these beautiful ixias he replied: "They are the easiest of all. Treat them exactly as you do freesias and you will have the same result."

William Currie, when asked how he managed to produce such a gorgeous display of hydrangeas for Easter, said the cuttings were made last season and grown in rich soil in pots all summer. In October they were set outside and hardened off. They were put under benches until January, when they were brought into a temperature of 65° and watered freely. When asked if he did not shake them out in January and give fresh soil Mr. Currie said: "No; you can't get them in so early if you do." The plants made a grand display, and Currie Bros.' window has been quite an attraction for two weeks.

There is some talk of calling A. Billings' place "Lily Dale," as we call him the Lily King. It is the general feeling that his plants for Easter were the finest lot any of us ever saw. Holton & Hunkel say they could not sell any others while his lasted. Of course we all want to know how he produced them, and when we are told it sounds very simple. He purchased Japan-grown longiflorums; potted them in September; set outside until cool weather, and then moved into a house, open roof, running north and south. After chrysanthemums were over he gave them more room; kept temperature about 50° until March, then 60°; watched watering carefully. The plants were two to two and a half feet high, strong, perfect foliage, clean flowers, no wrinkles or deformities, and of something like a thousand pots it was impossible to say which was the best. One important item which should be mentioned in connection with Mr. Billings is that all his potted plants are fine; everything he grows is a perfect specimen. He is also a mushroom grower. The soil used for mushrooms is very rich, and after it is thrown out he uses this soil for his pot plants. The way everything grows in it is a caution.

The next noteworthy product of Milwaukee is the mignonette grown by Charles Zepnick. He has supplied the market with plants measuring 18x10 inches, with enormous spikes, since December 1 to the present.

Quite a number of florists had orders for the inauguration of the new Common Council last Tuesday. Binzel & Kellner appeared to take the lead.

The demand for sweet peas and clematis appears to be greater than common. Prices are very good.

The Whitnall Floral Co. are using a fine lot of Baroness Rothschild roses, both cut flowers and pot plants.

Binzel & Kellner will move to temporary quarters soon to remain while a new building is being erected for them.

Ben Gregory is cutting good sweet peas. Trailing arbutus is expected next week.

Mr. D. S. York has established himself at the corner of Jefferson and Ouida streets, with a stand of flowers just outside the drug store. C. B. W.

ALLEGHENY, PA.—Robert Faulk has raised a company of 100 sharpshooters and has offered Secretary R. A. Alger its services in the war with Spain. Mr. Faulk has lived in Ross township for forty-eight years and has been in the flower trade for sixteen years. He is a Grand Army man, having served in the Eighty-seventh Pennsylvania Volunteers during the Civil War, and in his new organization has three sons, each of whom is a member of Nevin Camp, No. 33, Sons of Veterans, three brothers and at least a dozen cousins.

HARTFORD, CONN.—The annual spring exhibition of the Connecticut Horticultural Society was held on April 5th, 6th and 7th. The weather was not favorable for the transportation of plants, but notwithstanding this disadvantage, the exhibition was a very creditable one. Spring flowers and flowering bulbs were shown in great profusion.

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THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,  
387 Broadway, New York City,

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6 State Street, Boston, Mass.

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THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.
JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice-
Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y
and Treas.

A. UNGER, of L. Boehmer & Co., Japan,
is returning home from a European trip.

MORE SEASONABLE WEATHER has im-
proved receipts in the mail trade and
helped counter trade generally.

COLUMBUS, O.—The McCullough Seed
Company, of Cincinnati, capital stock
\$75,000, was incorporated to-day by
Albert McCullough, Robt. M. Cox, Her-
man Teepe, L. C. Black, George H. Par-
vin.

CHICAGO.—Goodwin, Harries & Co. will
remove May 1 to 115 Kinzie street, North
Side. The Braslan Seed Growers' Com-
pany are completing their shipments of
stock seed of peas to the north. Visitors:
J. E. Northrup, E. S. Wetherley, F. T.
Emerson.

AN order in council has been passed by
the South Australian government to the
effect that no bulbs or bulbous plants
brought to South Australia shall
be delivered to the consignee or importer
thereof, unless the collector of customs
shall be satisfied that such bulbs or bulb-
ous plants were not raised or grown in
a country from which their introduction
is prohibited. This order is stated to be
due to the prevalence in Japan of a dis-
ease which has been especially fatal to the
bulbs, killing as many as 95 per cent.

AN INTERESTING EXPERIMENT in onion growing
by Mr. Bloomfield of Paerata, near Pukekohe, is
reported by the New Zealand Farmer. An onion
of good size and condition was shown, the bulb
being described as the result of planting for cer-
tain seasons bulbs thrown off from seedling
onions as one plants potato onions. His object
was to test the practicability of establishing from
ordinary seedling onions a strain that could be
planted like potato onions and produce market-
able bulbs the next season instead of running to
seed. He began by planting the bulbs from a
chance seedling which divided into a double
onion. From this stock he has raised onions as
large as the average size of a potato onion.
A side-stalk of these good bulbs a flower stalk is
thrown up each year but which does not appar-
ently affect the size and quality of the onions
growing on the same roots. In time the tendency
to produce seed stalks may be lessened, as garden-
ers do, even in the case of potato onions, sev-
eral years, often send up a seed stalk producing
generally more or less abortive flowers. Mr.
Bloomfield aims for his experiments that they
be of the possibility of producing strains of
onions that can be planted from the bulbs of dif-
ferent sizes or varieties of seedling onions which
will be an improvement in quality upon the
present potato variety.

ORANGE, N. J.—The New Jersey Flori-
cultural Society held an Easter-tide Floral
Festival and Musicale at Berkeley Hall
on the afternoon and evening of April 21.
All the most prominent society ladies of
the Oranges gave cordial support to the
affair as patronesses, and the function was
one of the most brilliant ever given in
this neighborhood. The display of choice
plants and flowers made by the local
florists and gardeners was uncommonly
fine, and the society is justly proud of its
work.

BREITVILL, PA.—Fred Burki had been
missing quantities of flowers from his
greenhouses, and employed a watchman
to detect the thief, with the result that
on the night of April 8, Paul Schultz, a
former employe, was seen to force an
entrance and fill two large baskets with
carnations. Schultz is now awaiting
trial for burglary.

Jersey City, N. J.

The indoor Clinton plant market was
thoroughly appreciated during the im-
lement weather previous to Easter.
Easter Saturday from sixty-five to seventy
wagon loads of plants were offered for
sale, about evenly divided between the
indoor market and the park opposite.
Prices were not up to expectations, owing
probably to the unfavorable weather in
the early part of the week causing a glut
on Saturday. The indoor market so far
is satisfactory to the stand holders.

In his church bulletin for the week
ending April 9, Rector E. L. Stoddard,
of St. John's P. E. Church, on Summit
avenue, made this announcement, "It is
requested that no Easter lilies be furnished
this year." An appeal, however, was
made for all other kinds of flowers with
which to decorate the altar on that
Sunday. It was said that the reason Dr.
Stoddard made his request that no
Easter lilies be contributed was that for
several years past a number of persons,
particularly those in the choir, were over-
come during the services on Easter Sun-
day and fainted because of the odor of
the lilies.

Rector Stoddard is already known to
fame as the clergyman who superintends
a dancing school in one of the buildings
connected with his church. His terms,
one dollar for eight lessons, have caused
great indignation and disgust among the
dancing masters of the neighborhood.

J. C. N.



RAFFIA BEST QUALITY,
LONG MADAGASCAR
Having purchased on a very favorable
market, and wishing to move the
stock quickly, make the following
special low quotations for prompt
orders.

In bale lots (about 225 lbs.) at 8c
100 lbs. or over at 9c
50 lbs. or over at 10c
25 lbs. or over at 11c
10 lbs. or over at 12c
Less than 10 lbs. at 15c per lb., f.
o. b. Phila.; net terms and subject
to order on receipt of order.

This exceptional opportunity
for buying a supply of fine quality at a
low rate should not be neglected. All
commissions, large or small, will re-
ceive the same careful attention.

Grafting Wax

Trowbridge's Celebrated Grafting
Wax, the genuine article, 1 lb. bars
at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars
at 21c per pound. Rebates: 10 lb.
lots, 5 per cent; 25 lb. lots, 10 per
cent; 50 lb. lots, 15 per cent; 100 lb.
lots, 20 per cent.

G. C. WATSON,

Juniper, below Walnut, - PHILADELPHIA.

BURPEE'S
SEEDS
PHILADELPHIA.

Wholesale Price List for Florists
and Market Gardeners



TRY DREER'S
GARDEN SEEDS.

Plants, Bulbs & Requisites.
They are the best at the
lowest prices. Trade List in-
sued quarterly, mailed free
to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Mention American Florist

THE ALBERT DICKINSON CO.
DOMESTIC AND FOREIGN
GRASS SEEDS

FOR
Parks, Tennis Courts, Lawns, &c.
In fancy 1 and 2 pound packages and bulk.
SPECIAL PRICES TO THE TRADE.
CHICAGO, ILL.

"BEST OF ALL" TOMATO
(FOR FORCING)
"ENGLISH" MELONS
(FOR FORCING)
FLOWER SEEDS FOR FLORISTS
Catalogues on application
WEEBER & DON, Seed Merchants
and Growers,
114 Chambers St., NEW YORK, N. Y.

August Rölker & Sons,
Spring Bulbs,
Florists' Supplies, SEEDS

IMPORT ORDERS booked now for forcing
Bulbs, Azaleas, Lily of the Valley, etc., for
fall delivery; send for terms to

52 Dey Street, - NEW YORK.

TO SEEDSMEN!

The Only Machine

on the market for automat-
ically filling and sealing seed
packets.

THE BROWN
BAG-FILLING MACHINE CO.
FITCHBURG, MASS.

CLUCAS & BODDINGTON CO.

Importers and Exporters of
Seeds, Bulbs & Plants,

501 TO 503 W. 13TH ST.,
NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

BAGS COTTON SEAMLESS,
BURLAPS, ETC.

SECOND HAND BAGS BOUGHT AND SOLD.
CINCINNATI BAG CO.
Second and Walnut Sts., CINCINNATI, O.

Seed Stores and
Flower Stores

Can profitably handle our
Packages of Plant Food.
Attractive, take little
shell room. Valuable
booklet free. Good profits.

The WALKER FERTILIZER CO.
Clinton Springs, N. Y.

Los Angeles, Cal.

We have given up all hope for a general rain, and the record for the past winter will have to be written as the coldest and driest for more than a score of years. The growers who have waited in vain for expected rain are now irrigating everything, and he who has all the water needed is considered very fortunate. Those who depend on wells and windmills for supply are trying to increase the output, while those who buy from a water company are watching to see that they get all they pay for.

The supply of ordinary flowers, grown out-doors, is now fully equal to the demand and the florists have a much better selection for cheap grades of work. The price of carnations has kept up. All the principal growers united last November in establishing the price at \$1 per 100 for the winter months. That price still holds good, but it is thought a lower rate will soon be made. The retail price is from 25c to 50c per dozen, according to quality. Last week brought in sweet peas in quantity. They retailed at 25c per bunch of fifty. Violets are growing scarce. While some few singles are in the market, the Farquhar and M. Louise are more in evidence. Some growers are discarding California and substituting Princess of Wales. La France will be tested also. Planting young stock of carnations goes merrily on and bids fair to keep pace with the rapidly increasing population of the city.

We hear of some disappointments in the way of results from Harrisii imported from Bermuda last year. The only grower who had a good supply for Easter, forced bulbs that were grown in California. The supply was not equal to the demand. The retail price was \$1 per pot for plants with three and four blooms.

The people of Riverside celebrated Arbor Day with improvements in Fairmont Park. Hard, practical work, tree planting, and oratory on the benefits of parks were the principal features of the occasion.

Dr. F. Franceschi, manager of the Southern California Acclimatizing Association, is beginning to reap the benefits of his experiments in testing the hardiness of many tropical plants and trees, many of which he introduced into this country. He has recently shipped several car-loads of valuable stock to Arizona.

Louis Legrande, a former superintendent of the city parks, is preparing plans of all the parks from the original designs for the use of the present officials.

Chas. Winsel, the gardener in charge of the floral work of the Southern Pacific Railroad in this vicinity, was recently married to an estimable young lady in San Francisco. Mr. Winsel has many friends who tender best wishes.

The Redondo Beach Floral Company is cutting an average of 2,000 carnations per day at present, with the main crop just arriving.

It is rumored that two of the floral stores will shut down for the summer immediately after the Fiesta festivities.

There are, in this state, over 4,000 acres devoted to growing stocks of various kinds for seeds to partially supply the eastern demand. The value of this land and improvements exceeds \$3,000,000. The business is yet in its infancy, but is growing rapidly. D. R. W.

BEVERLY, MASS.—The Beverly Improvement Society announces its second annual flower show to take place about September 1st.



# WAR PRICES!

Here's a chance for you to buy staple goods and get double value for your money. We must make room for a big line of unmatched novelties soon to arrive, so down go the prices on

WE are cleaning out balance of the season's stock as rapidly as possible.

American Beauty Vases in many shapes.  
China Jardinières and Ferneries  
Metal Work and Artificial Flowers  
Baskets in great variety.

JUST RECEIVED  
New Cape Flowers

Extra large and extra white. A limited stock only. Heavier invoices are on the way. Prices on application.  
ITINERARY OF OUR MR. H. BAYERSDORFER WILL BE NOTED LATER.

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## H. BAYERSDORFER & CO.

Importers and Manufacturers of  
Florists' Supplies,

50-52-54-56 N Fourth St., PHILADELPHIA, PA

### REED & KELLER..... Florists' Supplies

122 W. 25th St., NEW YORK CITY.

### SMALL GREEN GALAX

For use with...  
VIOLETS

Stiff, wiry stems. Work up beautifully.  
Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000.  
....ADDRESS....

HARLAN P. KELSEY,  
1150 Tremont Bldg., - BOSTON, MASS.

### HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

### M. Rice & Co.

Exclusive Importers and  
Manufacturers of....

### Florists' Supplies

25 N. 4th Street, - PHILADELPHIA, PA.

BRILLIANT GREEN AND BRONZE

### GALAX LEAVES,

For Decorating and all Florists' Designs

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

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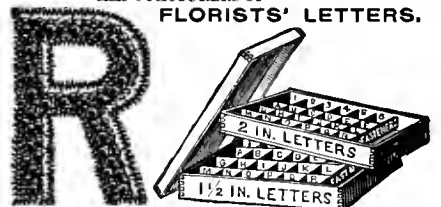
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This Size "Ad." Costs Only \$1.00.

AMERICAN FLORIST CO., CHICAGO.

### Boston Florist Letter Co.

MANUFACTURERS OF  
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/4 or 2-inch size, per 100, \$5.00.  
Script Letters, \$4. Fastener with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,  
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A Complete  
Catalogue for Florists.  
Send for One.

ELLIS & POLLWORTH  
MILWAUKEE, WIS.

John Conley & Son,  
Manufacturers of  
**TIN FOIL**  
2 AND 4 DOMINICK STREET,  
New York.

# Forcing Bulbs

WE have closed contracts with some of the best and most reliable producers for our stock of Roman Hyacinths, Dutch Hyacinths, Tulips, Von Sion Narcissus, Paper White Narcissus, Valley, Harrisii, Longiflorum, Azaleas, and all leading import forcing stock. Give us a list of your wants so that we may be able to quote you on same.

DON'T FORGET THAT WE ARE STRICTLY IN IT ON SUPPLIES OF ALL KINDS. SEEDS, BULBS AND CUT FLOWERS. . . . .

**VAUGHAN, McKELLAR & WINTERSON,**  
45-47-49 Wabash Avenue, CHICAGO.

## CANNAS NEW AMERICAN Finest in the World Our Novelties for 1898

- DUKE OF MARLBORO, darkest crimson..... \$30 00
  - DUCHESS OF MARLBORD, only pure pink... 30 00
  - TOPAZ, only absolutely large pure yellow... 50 00
  - LORRAINE, pink, edged white, fine..... 30 00
  - MAIGENS BLUSH, delicate flesh color..... 15 00
  - GOLDEN PEARL, yellow, nearly double..... 30 00
  - CUBA, finest and largest gilt edged..... 40 00
  - Gloriosa, very dwarf, March delivery..... 12 50
  - PHILADELPHIA, glowing crimson..... 15 00
  - CHAMPION, largest, glowing scarlet..... \$5 00 each
  - KLONDIKE, only large pure orange..... \$2 50
- Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

**OUR CANNAS IN FRANCE.**  
To Messrs A. Blanc & Co.  
Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant crimson, etc. Signed CH. MOLIN,  
Lyon France, Jan. 3, 1898.

**ASPARAGUS SPRENGERI**  
Fine plants in 6-inch pots, ready for 8-inch \$5 per 12.

**AMARYLLIS.....**  
Veltch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Furmoelsma, \$3 per 100.

**CALLAS**  
Spotted Leaf, \$3; Black, \$5; Yellow, \$9; all per 100. Golden, \$2 each.

**DAILIAS**  
11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, GILT EDGE, \$15 per 100. Send for special list.

**A. BLANC & CO., Philadelphia, Pa.**

## TO IMPORTERS!

**HAERENS BROS.**  
From SOMERGEM near Ghent, Belgium

**SPECIAL** Growers and Exporters of Azaleas, Palms, Arancarius and other decorative plants, take pleasure to inform you that their Mr. A. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their new Azaleas will be the favorites of the future. Write for price list and special offer until May 10th.

**AUGUST HAERENS** CARE OF... VANDERGRIFT CO.  
66 Beaver St., New York City.



**IMPORTERS**  
**JAPANESE PLANTS,**  
BULBS, ETC.

At lowest price. Small orders filled from experimental garden Columbia Road, Brixton, Mass. Wholesale catalogue, 1898. Free to the trade.

**JAPANESE NURSERY,**  
Office, 272 Boylston St., BOSTON, MASS.



## VAN HEEMSTRA & CO. BULB GROWERS

SASSENHEIM, - HOLLAND.

BEFORE ordering Dutch Bulbs ask our quotations. Our stock enables us to make good offers. Address letters until May 15th to

**W. WARNAAR,** Care KNAUTH, NACHOD & KUHNE,  
13 William St., NEW YORK.

## VAN ZONNEVELD BROS. & CO. SASSENHEIM, HOLLAND

HYACINTHS, TULIPS, CROCUS, DAFFODILS, AND OTHER BULBS. ALSO SHRUBS AND PLANTS.

THEY are strictly first-class and cheap. Special quotations for Wholesale Importers... Address all correspondence until May 15th to..... H. VAN ZONNEVELD  
care J. W. Hampton, Jr. & Co., 41 Broadway, New York

## BEST QUALITY HOLLAND BULBS LOWEST PRICES

## Jac. WEZELENBURG

SASSENHEIM, HOLLAND.  
Address up to May 1 in care of KNAUTH, NACHOD & KUHNE, 13 William St., NEW YORK.

## Beerhorst... & Van Leeuwen

GROWERS OF... SASSENHEIM, HOLLAND.  
**Dutch Bulbs**

AND PLANTS FOR AMERICAN MARKET.  
Ask for Wholesale Prices.  
We will stay in America until May 10th. Please address letters to

**L. Van Leeuwen,**  
CARE COLONNADI HOTEL,  
72b Broadway, - NEW YORK, N. Y.

## BULBS For FLORISTS., For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, - HOLLAND.

## N. Dames Vanderhorst & Dames...

BULB GROWERS

**Lisse and Heemstede, Holland,**

is on his round trip through the United States. To spare time, we beg to send all letters and communications up to May 15, care of

**Knauth Nachod & Kuhne,**  
13 William St., New York.

Give us the list of your wants and we will send you our lowest quotations for real good stuff.  
Mention American Florist.



JAPAN  
LILIUM  
LONGIFLORUM

FROM A PHOTOGRAPH.

Above Plant Produced from B to 10-Inch Size Bulbs.

# ..LILIUM LONGIFLORUM..

## JAPAN GROWN

THE STOCK OF JAPAN GROWN ❀❀❀

### LILIUM LONGIFLORUM

WHICH WE SUPPLIED LAST SEASON HAS GIVEN EXCELLENT RESULTS AS OUR MANY CUSTOMERS WHO GREW THEM WILL TESTIFY.

EASTER TRADE  
REPORTS  
SHOW THE SALES  
OF  
**LILY PLANTS**  
EXCEEDED  
**ALL OTHERS**

**OWING** to the increasing demand for this Lily the supply will likely be exhausted before planting time and it is **DOUBTFUL** if .....

## Late Orders

will be filled in full.❀❀❀

Estimates on above....

**LILIUM HARRISII** as healthy as grown on the Island ..... and all **FORCING BULBS** cheerfully furnished.

## VAUGHAN'S SEED STORE

CHICAGO:  
84-86 E. Randolph St.

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14 Barclay Street.

Headquarters for

"Fancy" Bulb Stock at Reasonable Prices.

ORDERS PLACED  
**NOW**  
WILL BE MOST  
CERTAIN  
OF  
DELIVERY AND  
SECURE  
**INSIDE PRICES**

# GRAND NEW VIOLET "LA FRANCE"

**STRONG VIGOROUS GROWER  
EXTRA FREE FLOWERING  
❀❀❀RICHEST COLOR**

**O**F the many new Violets introduced in the past few years this, the latest introduction of the foremost French specialist, is unquestionably the **BEST**. It has been thoroughly tested by Mr. Suptot, the Violet expert, who pronounces it "perfect," and flowers which we have exhibited during the past few weeks have been much admired. In vigor of growth, freedom of bloom and in size and coloring, it is superior to all existing sorts, and will soon supersede them. Only a limited stock will be offered this season, and orders will be filled in strict rotation.

Price, \$1.25 per dozen; \$10.00 per 100.

**HENRY A. DREER,** 714 Chestnut Street,  
PHILADELPHIA, PA.



## Violet Plants...

Marie Louise

Strong healthy rooted runners.....\$ 6.00 per 1000  
Sand struck cuttings..... 10.00 per 1000  
Grower of One Million Violets. Cash  
with order to be filled when purchaser  
desires.....

GEORGE SALTFOED, - Rhinebeck, N. Y.

## Princess of Wales Violet...

The Best Money-Maker Among Violets.  
Strong 2 1/2-inch pot-grown plants .....\$5.00 per 100.

J. A. PETERSON, = 105 E. 4th St., Cincinnati, O.

Geraniums for Decoration Day.

ED. AM. FLORIST:—Is there any special way to make geraniums bloom for Memorial Day? Have had trouble in bringing them all out at the proper time.  
GEORGE W. HUNT.

With the following treatment I have never experienced difficulty in causing geraniums to bloom late in May. Hold them in thumb pots till near the end of January. Then repot in 3-inch pots and place in a light, airy house; give a night temperature of from 50° to 52°. With care not to over-water they will grow rapidly and by the middle of March will be ready for a shift into 4-inch pots. If given plenty of air and light they will begin to bloom as soon as established. We pinch off all the buds which appear before the first of April. This throws all the strength into the plant and by the middle of May we have a nice stocky plant with ample bloom. I advise Mr. Hunt to not over-crowd his plants. If they are well established I see no reason why they should not be in bloom by Memorial Day.  
C. W. JOHNSON.

BELLEVILLE, ONT.—W. G. Munro has been appointed instructor in botany at the Washington State Agricultural Bureau, near Spokane Falls, Wash.

**STRONG STOCK TO POT ON NOW.**  
**JOHN H. LEY,**

GOOD HOPE, WASHINGTON, D. C.  
offers clean well rooted plants as below.  
Per 100.  
Areca Lutescens, 2 ft. thick, 4-inch ..... \$25.00  
Orange Trees 2 ft., full of green fruit, 5 in. pots, 25 00  
Phoenix Reclinata, 4-inch pots ..... 8.00  
Phoenix Reclinata, 3-inch pots ..... 5.00  
Ferns, from 50 to 100 sorts, mailed ..... 1.25  
**\$10.00 per 1000 by express.**  
Per dozen.  
Oreodoxa Regia 5-inch, 3 in a pot. (Royal Palm) 3 to 4 feet high ..... \$ 8.00  
Phenacoporum Sechellarum, 4-inch, nice plants of this rare palm ..... 24.00  
Lomaria glabra, 4 inch ..... 1.00  
Nephrolepis d. furcata, 5-inch, extra large ..... 5.00  
" " " 6-inch, ft. for 8-inch ..... 3.00  
Pandanus Ullis, 5-inch, extra large ..... 4.00  
Well packed. Cash with order.

**EVERGREENS, Etc.**

20,000 American Arbor Vitae, 2 to 8 feet specimens and hedging plants.  
5,000 Pyramidal Arbor Vitae, 2 to 4 feet.  
20,000 Compacta, Globe and other dwarf Arbor Vitae, all sizes.  
3,000 Nordmann's Silver Fir, 1 to 2½ feet  
2,000 European Silver Fir, 1 to 4 feet.  
10,000 Hemlock Spruce, 1 to 4 feet.  
10,000 Norway Spruce, 3 to 8 feet.  
10,000 Retinosporus Squarrosus, Plumose, Plumose aurea and other sorts, 1 to 5 feet.  
5,000 Irish Junipers, 1 to 2½ feet  
10,000 Pines, Austrian, Scotch, Koeberia, White and dwarf varieties, all sizes.  
1,000 Eucynonous Japonica, 18 to 36 inches  
2,000 Eucynonous Japonica variegata.  
1,000 English Holly, 1 to 4 feet  
3,000 Mahonia aquifolium and Japonica.  
3,000 English Ivy, strong plants.  
Prices low. Correspondence solicited.

THE WM. H. MOON CO., Morrisville, Pa.

**BORONIA BORONIA**  
I will have a very nice stock of these in perfect condition for autumn delivery  
Boronia heterophylla from 20 cents to \$1.00 each.  
Boronia elatior from 20 cents to \$1.00 each.  
**AZALEAS** grown especially for American trade at very reasonable prices.  
Palms, Dracaeas, Aracaeas, ACACIAS, Kalivas, Liatris, Rhododendron, Etc.  
Sweet Bays, standards and Pyramids. Describe them and prices on application.  
ARTHUR DE MEYER, Nurseryman,  
Mont St. Amand, Ghent, Belgium.

**Fancy Leaved Ca adiums**

VERY LARGE BULBS AT A BARGAIN.  
These bulbs contain some of the choicest kinds in cultivation. Offer cheaply made on account of a surplus. Address at once.  
F. J. ULBRICHT,  
P. O. Box 655... ANNISTON, ALA.

# Areca Lutescens

## LARGE HEALTHY STOCK

3 Plants, 6-in. Pot,	24 to 32-in. high, very bushy, each	\$1 00
3 " 7-in "	32 to 36 " " " "	1 50
3 " 8-in "	36 to 42 " " " "	2 00
3 " 8-in "	42 to 48 " " " "	2 50
1 " 10-in "	4 to 5-ft. high, " " "	5 00

ALL MEASUREMENTS FROM TOP OF POT.

## JOSEPH HEAGOGK, WYNCOTE, Phila., Pa.

# Orchids

Just received in perfect condition a large importation of Cattleya labiata, well leaved and perfectly dormant. Also C. Mossie, C. Chocoensis, Odontoglossum crispum and Miltonia Rozlii. A great many other South American and East Indian Orchids to arrive shortly.

WE ALSO CARRY A LARGE STOCK OF ESTABLISHED ORCHIDS OF THE MOST USEFUL KINDS.

## LAGER & HURRELL, = Summit, N. J.

# P

# PALM

Seed.

FRESH ON HAND

COCOS WEDDELIANA . . .	\$1.00	1000	\$20.00
LATANIA BORBONICA . . .	.50	300	7.50
KENTIA BELMOREANA . . .	1.00	700	20.00
" FORSTERIANA . . .	1.00	700	20.00
ASPARAGUS PLUMOSUS NANUS . . .	1.50	1250	35.00
" CANARIENSIS . . .	1.50	1250	35.00
" SPRENGERII . . .	1.50	1250	35.00

J. L. SCHILLER,  
404 E. 34th St., NEW YORK CITY.  
Please mention American Florist.

# Asparagus Sprengerii

For another week (before potting up) we offer small dormant 1-year roots @ \$5.00 per 100. These bulbs will quickly make strong 2½-inch pot plants.

**Ficus Elastica**, true, large leaf variety, 6-inch pots, 20 inches high @ 50¢ each.

**Crimson Rambler Roses**, extra fine, bushy plants, in 4-inch pots, will soon bloom, per dozen, \$2.00; per 100, \$15.00.

**Cycas Revoluta**, dormant stems, size from 3 to 10 lb. @ 15¢ per lb.

**Clothilde Souper**, the great pot rose, our stock is A No. 1, 2-in. @ \$3.00; 2½-in. @ \$4.00; 3-in. @ \$5.00; 3½-in. @ \$6.00 per 100.

**Dahlias**, 2½-in. pot plants, in named varieties, per 100, \$5.00.

**Pelargoniums Mme. Thibaut**, Mrs. Robt. Sandiford, Edward Perkins and Dorothy, strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.

For **Cannas, Carnations, Chrysanthemums**, send us your list; we have all kinds.

**H. P. Roses**, dormant, 2-year, extra fine stock @ \$12.00 per 100.

**Clematis**, Ampelopsis Veitchii, Hollyhocks, Paeonies, Hydrangeas P. G., etc. we have in large quantities; write us for prices.

**VAUGHAN'S SEED STORE,**  
Greenhouses: CHICAGO:  
Western Springs, Ill. 84-86 Randolph St.

# Crotons...

IN VARIETY

Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Lineata, Andraeanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. **New and rare varieties, 50 cents each.**

Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$6 per 100.

Edwin Lonsdale,

Money Order Office,  
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Florist,  
CHESNUT HILL,  
PHILA., PA.

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## Roses, Palms

and Novelties in Decorative Plants.  
Market and 49th Street, PHILADELPHIA, PA.

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LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Aracaeas, Pandanus.

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New York Office, 409 Fifth Ave.

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Per 100

**DOUBLE PETUNIA**, Dreer's strain, strong..... **\$2.50**

**RUSSELLIA JUNCEA**, 2½-in., strong 3.00

**AMPELOPSIS VEITCHII**, 2½-in..... 2.50

**PALM** Latania Borbonica, 2½-inch, 3 to 4 leaves, per 1000, **\$40.00, 4.50**

THOS. A. McBETH, Springfield, O.

# PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST



GEO Wittbold  
1708 N. HALSTED ST  
CHICAGO

St. Louis.

Since Easter things have quieted down more than at any time this season, and stock and prices show a tendency to assume a very undesirable condition. Carnations have worked down to \$5 per 1000, and other stock in proportion. Considerable dull rainy weather has had the effect of stopping the heavy cutting that was commencing; it also stopped a great deal of the trade going.

The funeral during the past week of one of Adolphus Busch's sons caused a scarcity of flowers of some varieties in this market. The designs sent by employes and relatives were very large and numerous, and notable among them were an 8-foot column, 4-foot chariot, and others; smaller pieces were also abundant, in all several van-loads to take to the cemetery. Lily of the valley and the finer grades of flowers were soon exhausted and outside markets had to be called upon.

Plant trade at the Union market is reported as fair, the unsettled state of the weather being chiefly held responsible by the salesmen. They say that with clear warm weather business would be very good, judging from present indications. Hydrangeas, which were late for Easter, have made their appearance in quantity, and are meeting with ready sale. A few lilies are still to be seen; the principal stock shown, however, is the usual run of spring material, and it is in excellent condition.

The fakirs are with us again. Easter had the effect of keeping them off the streets for a day or two, that is some of them, but they have reappeared in increased numbers. This is the first time that they can be said to be numerous in St. Louis, and they appear on entirely too many street corners to be pleasant or agreeable for the retailers. They are handling a fair grade of goods.

There is some talk of a new store being opened in the west end, rumor placing the probable location as near Grand and Olive streets or Jefferson and Washington avenues.

The Krebs Floral Co. have made quite an extensive change in their store; the window has been floored with marble, a handsome soda fountain occupies one side and candy cases the opposite side. These changes have greatly improved the interior of the store, and from its favorable location their additions should prove a profitable attraction. R. F. T.

URBANA, ILL.—This city affords a fine field for a florist as it is said there is not a greenhouse nearer than Champaign.

REDUCED PRICES

—Very Fine Rooted—

Carnation Cuttings

Taken from our "Prize" Stock.

MCCOWAN ALASKA ALBERTINI  
HELEN KELLER ARMASINDY  
DAYBREAK  
\$2.00 per 100; \$15.00 per 1000.

SOUTH PARK FLORAL CO., New Castle, Ind.

ROSES, VERBENAS, VIOLETS

Finest Teas and Hybrid Teas, clean, healthy, 10 to 15 inches high ..... \$4.00 per 100  
Verbenas, best colors, 2 1/2 inch pots. 2.00 per 100  
Violets, California, well rooted..... 1.50 per 100  
Calla Lilies, 5 and 6 inch pots..... 10.00 per 100

Invariably at these prices.

Cash with Order. F. WALKER & CO.  
Box 316, New Albany, Ind.

Chrysanthemum Mrs. A. F. Wienold

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Bergmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2 1/2-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

CAL. VIOLETS. No disease. Strong runners. 50c per 100; \$4 per 1000. McDONALD & STEELE, Crawfordsville, Ind.

Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

CARNATIONS FROM SOIL

Kathleen Pantlind, \$10 per 100. \* Flora Hill, \$5 per 100.  
Beauties, 2 1-2 in., \$6 per 100. Carnots, 2 1-2 in., \$4 per 100.

HOPP & LEMKE, Paul P. O. E. Grand Rapids, Mich.

\* \* \* TO \* \* \*

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Aster Plants ..... @ 60; per 100, or \$5 per 1000.  
Pansies, transplanted ..... @ 60 per 100 or \$3 per 1000.  
Salvia Clara Bedman, 3-10..... @ \$2.50 per 100.  
Salvia Clara Bedman, 2 1/4-in. @ \$1.50 per 100.  
Petunias, Dreer's strain, 3-inch, strong..... \$2.50 per 100.  
Geraniums, choice mixed, 3-inch, strong..... \$2.50 per 100.  
Feverfew Little Gem, 2 1/4-inch, strong..... \$1.50 per 100.  
Lycopodium Deul., 2 1/4-in, strong, \$1.50 per 100.  
Alyssum, strong..... \$1.50 per 100.  
Hardy Pink 60c White Pinks, strong clumps..... \$4.00 per 100.  
John White Canna, 1-10. @..... \$5.00 per 100.  
Strong K. C. Carnations..... 20 varieties.  
Above are all extra strong plants.

**THE MORRIS FLORAL CO.,**  
MORRIS, ILL.

ALBA SUPERBA

The Gardenia Carnation.

Plants Now Ready \* \$10.00 per 100  
60.00 per 1000

JOHN BURTON,  
Chestnut Hill, PHILADELPHIA, PA.  
Please mention the American Florist

Flora Hill

AND 25 OTHER VARIETIES, LOW TO CLOSE OUT.....

GRAFTED TEA ROSES, \$15 per hundred.

H. F. LITTLEFIELD, Worcester, Mass.

SWELL YOUR BANK ACCOUNT

By growing Emily Pierson Carnations, the most profitable Red Carnation in cultivation. Clean healthy grower, large full flowers with fine stem. Our house, 70x20 feet, from which we have been cutting since September, has 20,000 buds in sight to-day. We can supply fine rooted cuttings at \$1.00 per 100; \$8.00 per 1000. Cash with order.

South Side Floral Co., Springfield, Ill.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

New CARNATIONS.

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelioa (Witterstaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

MRS. C. H. PEIRCE—Yellow.  
35c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
50c each, \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List.  
Ready January, 1898.

F. DORNER & SONS CO.  
LAFAYETTE, IND.

NATHAN SMITH & SON

Wholesale Florists

Specialties \* \* \* \* \* ADRIAN, MICH.

CHRYSANTHEMUMS  
CARNATIONS \* \* \* \* \*  
AND VIOLETS \* \* \* \* \*

... CORRESPONDENCE SOLICITED ...

CARNATIONS

STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldline, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

CHAS. CHADWICK,

Lock Box II. GRAND RAPIDS, MICH.

Hanover, Pa.

Mr. F. C. Cremer is about to commence work on an additional rose house to cover 100x20. Mr. Cremer has been pre-eminently successful in growing roses, his stock finding a ready sale, both locally and in the Philadelphia market. In addition to his place in Hanover, he has also a store in Gettysburg. HOMO.

HARTFORD, CONN.—A rosehouse belonging to Alfred Whiting, West Hartford, was badly damaged by fire on the evening of April 3. Loss on building and contents is estimated at \$1,500.

DANBURY, CONN.—The J. H. Ives greenhouses were not injured so seriously as at first reported, the loss being trifling.

KINCARDINE, ONT.—Mr. Wm. Bacon gave a lecture on Thursday under the auspices of the horticultural society.



FINE CARNATION PLANTS FROM SOIL. CHEAP FOR CASH. PLEASE

Flora Hill ..... \$4.00 per 100, \$30.00 per 1000.  
Mrs. Geo. M. Bradt ..... 5.00 per 100, 44.00 per 1000.  
Mrs. Chas. H. Duhme ..... 3.00 per 100, 30.00 per 1000.  
Evelina, White Cloud Gold Nugget ..... \$10.00 per 100.  
McGowan, Portia, Scott, &c. \$1.50 per 100, \$12 per 1000.

FINE strong plants 2 1/2 in. pots.  
FUCHSIAS—the best early flowering sorts, \$2.25 per 10. I am ready to please every customer and pack carefully in light boxes. I guarantee entire satisfaction and big value for the money. Please say by what Express Co. We have the Adams, American and United States.

CHAS. T. SIEBERT, Station B. Pittsburg, Pa.

NEW WHITE PERPETUAL BLOOMING CARNATION

Anna H. Shaw

The Best "All Round" White Carnation for Cut Flowers. Recommendations: Wonderful bloomer. Unusual vigor. Rapid grower. Forms strong blooming plants in a very short time. Perfectly healthy. Handsome foliage. Large beautifully formed flowers on long stems. Exquisitely fragrant. Never buds. Blooms longer and gives more flowers than any other variety ever offered. If you want a RELIABLE Carnation that can always be depended upon, give Anna H. Shaw a trial. Rooted cuttings \$1 per doz.; \$5 per 100. Strong plants \$1.75 per doz.; \$10 per 100. Send for Trade List and Catalogue of Seeds, Bulbs, Plants, Cacti, Etc.

Mrs. Theodosia B. Shepherd, Ventura-by-the-Sea, Cal.

ORDER AT ONCE AND SECURE STOCK

CHRYSANTHEMUMS

Rose Owen, J. H. Woodford, Dorothy Devens, G. F. Atkinson, Golden Trophy, T. B. Morse, Pres. McKinley, Western King, The Herriott, Surprise, Marcia Jones, Elveua, Miss Helen Wright, Belle of Castlewood, Chito, C. W. Ward, Mrs. S. T. Murdock, 75 cts. per dozen; \$5.00 per 100. Glory of Pacific, Maud Deau, Mrs. R. Crawford, W. P. Kaynor, Modesto, Lenawee, Pride of Castlewood, Bonuauffon, Ivory, Ruth Ellis, 50 cts. per dozen; \$3.00 per 100. Frank Hardy, T. H. Spaulding, Mrs. O. P. Basset, The Yellow Fellow, Madeline Pratt, Mrs. C. H. Peirce, Merry Christmas, 35 cts. each; \$3.00 per dozen. Snow Queen, Pennsylvania, 50 cts. each; \$5.00 per dozen. W. H. Chadwick, \$1.00 each; \$6.00 per dozen.

CARNATIONS

Jun. Young, Bon Tou, Mrs. Jas. Dean, White Cloud, New York, Empress and Evelina, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. Lily D-an, C. A. Dana, Mayor Pingree, \$5.00 per 100. Daybreak and Storm King, fine from soil. \$2.00 per 100; \$15.00 per 1000. Scott and McGowan, \$2.00 per 100; \$12.00 per 1000.

CANNAS

Pres. McKinley, Defender, Pres. Cleveland, Tarrytown, 60 cts. each; \$5.00 per dozen. Queen Charlotte, Admiral Avellan, Pres. Carnot, Midway, Ami Pichou, Egdale, Chas. Henderson, \$2.50 per 100. Eldorado, A. Billard, Burbank, Count de Bouchard, Souv. du Pres. Carnot, Souv. d'Antoine Crozy, Papa, \$4.00 per 100.

For full description send for our 1898 wholesale list.

THE COTTAGE GARDENS, Queens, N. Y.

Flora Hill

CARNATION

It sells because there is nothing in sight to at all equal it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000.

Our trade list is issued. If you have not received one send for it.

E. G. HILL & CO., = Richmond, Ind.

NEW CARNATION ARGYLE

A few left at the following price \$10.00 per 100; \$75.00 per 1000....

STOLLERY BROS. ARGYLE PARK, - CHICAGO, ILL.

ARGYLE THE FINE NEW PINK CARNATION.

LARGE, healthy, free. \$2.00 per doz.; \$10.00 per 100; \$75.00 per 1000. Send for complete list of all the best varieties.

GEO. HANCOCK & SON, Grand Haven, Mich.

\$300 CARNATION PRIZE

See half page ad. in issue of March 26th. Send for our circular.

AMERICAN ROSE COMPANY, Box 422. WASHINGTON, O. C.

Carnations Chrysanthemums

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1899 as well as the best standard sorts. Address

H. WEBER & SONS, - Oakland, Md.

NEW CARNATION....

Empress

Send for price list of above. New and Standard Sorts....

WM. SWAYNE, Box 226, Kennett Square, Pa.

Herr's Smilax

Sample plants sent for 10 cents. Cuts per 100 or 25.00 per 1000

CARNATION EXPERIENCES

A few hundred left send your address and get one free.

ALBERT M. HERR

Lancaster, Pa.

THE BEST OF THE NEW PINK CARNATIONS

Mrs. Frances Joost.

A WINNER EVERYWHERE.

\$2.00 per dozen, \$10.00 per 100; \$75.00 per 1000. Cash with order.

G. BESOLD, Mineola, L. I., N. Y.



# April Offer.

Per 100  
 Alternanthera A. Nana, \$1.75; P. Major.....\$2.00  
 Begonias, 5 var.—Vernon..... 2.50  
 Coleus Asst. and Centaurea Gymnocarpa.... 2.00  
 Geraniums, 16 Var., 2½-in. pots, \$2.50; 3-in. 3.75  
 Geraniums, 4-in. pots and Marguerites (Paris  
 Daisy)..... 5.00  
 Pansy plants from cold frames and Smilax..... 1.00

CASH PLEASE.

JOS. H. CUNNINGHAM, Delaware, Ohio.

# Geranium "Mars"

Special Certificate of Merit.

The best selling, most floriferous and dwarfed Geraniums ever introduced.....

FOR SALE BY—

HENRY A. DREER, Philadelphia, Pa.  
 F. R. PIERSON CO., Tarrytown, N. Y.  
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 COTTAGE GARDENS, New York.

AND THE INTRODUCER

HENRY EICHHOLZ, - Waynesboro, Pa.  
 FRANKLIN CO.

**PANSIES** WE grow over a million from the choicest seeds of Bugnot, Cassier, Odier and Trunardeau, transplanted last November in cold frames; large plants now ready to bloom, 60c per 100; \$4.00 per 1000; Mammoth Verbenas, 70c per 100; \$5.50 per 1000; Double Geraniums, in bud and bloom, such as S. A. Nutt, Gen'l Grant, La Favorite and many others equally as good, 4-inch, \$6.00 per 100, 3-in., \$4.00 per 100.

FUCHSIAS, very branchy, loaded with bloom, 4-inch, \$10.00 per 100, 3-inch, \$5.00 per 100.  
 HELIOTROPE, 4-inch, \$6.00 per 100.  
 VINCAS, extra heavy, 4-inch, \$8.00 per 100.

All the above are very bushy and well branched.

## WHITTON & SONS.

Wholesale Florists,

City and Green Sts., UTICA, N. Y.

## HARDY PINKS

2½-in. pots: Souv. de Sale, \$3.50 per 100; Her Majesty, Glen Valley, Laura Wilmer, Gertrude, \$3.00 per 100.

## VIOLETS...

2½-in. pots: Admiral Avellon, Princess of Wales, \$3.50 per 100; Luvonne, California, Campbell, Swanley White, \$3.00 per 100.

THE CONARD & JONES CO., - West Grove, Pa.

**Vinca** MAJOR Var. Per 100  
 From 4-inch pots.....\$7.00  
 From 2-inch pots.....\$3.00

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**PANSIES** THE JENNINGS STRAIN. THEY ARE GRAND. Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.  
**E. B. JENNINGS,**  
 Lock Box 254, SOUTHPORT, CONN.  
 Crower of the Finest Pansies.

# 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000.  
**NO RUST OR MILDEW.**

**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**  
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 Our plants cannot be surpassed.

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4 inch Paper Pots, in Bloom.

**PINK, RED and WHITE**  
 Best Bedders. . . . Thousands Ready.

.....WHITE.....

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# West Islip Greenhouses MARIE LOUISE VIOLETS

Rooted Runners, \$4 per 1000.  
 Cash with order.

**E. B. SUTTON, Jr.** P. O. Address.....  
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# Hydrangeas

Fine plants with 10 to 30 blooms per plant. 10 cents per bloom....

**JOHN SCOTT,** Keap St. Greenhouses,  
 BROOKLYN, N. Y.

Several Thousand

# Arundo Donax

Well rooted out propagating bed...  
 Make us an offer for same....

**A. C. OELSCHIG,**  
 SAVANNAH, GA.

# ASTER GIANT WHITE COMET

Pure white. Trade pkt., 25c; oz., \$2.00; fine mixed, oz., \$1.75; tall Victoria, white, dark blue and pink, trade pkt., 25c; oz., \$2.00; fine mixed, oz., \$1.75. All the other seeds at market prices; trade list and sample on application.

**H. BEAULIEU,** Woodhaven, Q. B., New York.

**FAXON'S "WHITE HOUSE" PANSIES.**  
 The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.  
 In Trade Packets at \$1.00 each.  
**M. B. FAXON,**  
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 Correspondence solicited.

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**ROSES,** from 3-inch pots.  
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Prices low. Send for list.

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**CLEMATIS** Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00  
**H. P. Roses** Strong, 2 and 3 years own roots.....\$1.50 \$10.00  
**RED JACKET GOOSEBERRY,** only large native red..... 75 \$4.00  
**DOWNING,** best for general crop, special prices.  
**PAEONIES,** fine ass't of colors and kinds \$1.25 \$8.00  
**SMILAX,** extra strong plants..... \$2.50  
**F. A. BALLER, Bloomington, Ill.**

# KLONDIKE

Cold Fields at Your Door.

**COLEUS**—All kinds, all grades and all prices. Verschaffelti and Queen, 75c per 100; \$6.00 per 1000; 2½-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 50c per 100; \$4.50 per 1000; 2½-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 1000; \$1.50 per 100. Anemone Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$15.00 per 1000; 2½-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$1.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychoides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2½-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2½-inch pots, \$2.50 per 100; Mme Sallerot for flats, \$1.25 per 100; \$10.00 per 1000; 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.  
 The above are rooted cuttings, except where noted. Cash with the order.

**J. E. FELTHOUSEN, Schenectady, N. Y.**

# CARNATIONS AND COLEUS ROOTED CUTTINGS

THE 1898 INTRODUCTIONS  
 THE 1897 INTRODUCTIONS

**DAYBREAK** of special quality.  
**ROOTED COLEUS** in variety.  
 Good stock only. Price list free.

**DAN'L B. LONG, Growers' Agent,**  
 BUFFALO.

**5,000 SMILAX..**  
 From flats, by mail, 50c per 100, \$4.00 per 1000  
 From 2-inch pots, \$2.25 per 100, \$13.00 per 1000  
 Geraniums from 2-inch pots, \$2.25 per 100; \$30.00 per 1000. Cash with the order. Send for samples. **Fred Boerner, CAPE MAY CITY, N.J.**

**PRICES GREATLY REDUCED**  
**Cape Cod Pink Pond Lily**

For price lists, Plants and Cut Flowers, address the original cultivators.....

**CHIPMAN BROS.**  
 SANDWICH, (CAPE COD), MASS.

# LETTUCE AND OTHER... VEGETABLE PLANTS

**LETTUCE**—Big Boston, Boston Market, Tennis Ball, Grand Rapids and Relchner's Forcing. 15 cts. per 100; \$1.00 per 1000  
**TOMATO, CABBAGE and CELERY**—Small plants for transplanting now ready. 15 cts. per 100; \$1.00 per 1000.  
 Pepper and Egg Plants—25 cts per 100; \$2.00 per 1000.  
**CAULIFLOWER, Snowball**—35 cts per 100; \$2.50 per 1000; 1¢ by mail add 10 cts. per 100 for small plants, and 50 cts. per 1000. Send for price list. Cash with order.  
**R. VINCENT, Jr. & SON, White Marsh, Md.**

Rochester, N. Y.

With the fine mild weather prevailing, our florists experience no difficulty in delivering Easter plants. The increased sales of flowering plants necessitated extra trips for the delivery wagons, because plants are bulky and cannot be piled on top of each other, as in the case of cut flower boxes, but there is no grumbling, so far as I know, in this respect; on the contrary, some are inclined to think that the handling of plants is in many respects preferable to the cut flower business on the great holidays. It was expected that the sales in plants would be ahead of any former year, and all were prepared for a very large increase; but in some quarters expectations were perhaps out of proportion to the size of our town, and consequently we have a goodly number of unsold plants at the various establishments in the neighborhood, notwithstanding the fact that we really had a very acceptable increase in the demand for flowering plants of all descriptions.

A mistake was also made in the anticipation of a growing demand for the larger or higher priced plants; only a limited number of these found purchasers. The great majority of people will not spend more than \$1.00 or \$2.00, perhaps \$2.00 at the outside, for a plant; they may select several of these, but would hesitate to invest the whole amount in the purchase of a single specimen, however perfect in shape or attractive in appearance. Still, retailers have every reason to be satisfied with Easter trade this year. The total amount of sales was decidedly larger than for several years past, and if there are a few plants left on hand these may come in handy for some purpose during the remainder of the week, as indications for the near future are quite encouraging.

There was less demand in the cut flower line this year, in fact, the falling-off was greater than anybody could reasonably expect, consequently some of our storemen had an oversupply on hand, yet prices were very steady and no attempt was made to lower them at all because the supply was abundant. Mignonette, violets, tulips and hyacinths were more plentiful than ever, while a good and adequate quantity of roses and carnations could be seen everywhere; enough of everything was on hand, excepting lilies, of which many more might have been used, either in pots or in a cut state.

Weather conditions since Easter have favored the development of flowers in the greatest abundance, consequently prices have suffered and the supply is greatly in excess of the demand, although the week was rather a busy one in every respect for our florists. Weddings and other functions were quite numerous and flowers were employed freely on all these occasions, but the supply was too generous to be used up to advantage.

Roses of fine quality can be bought at \$4 per 100, lower grades at corresponding smaller figures, carnations bring less than one-half last week's prices, although stock is decidedly plenty, a good part of it outdoor grown, and much of it is going to waste. Arnold's sweet peas never were better than at present, and they only fetch 50 to 60 cents, outdoor under-primed, the old double English, sell at 50 to 60 cents, Mignonette \$2 to \$3, Liberty Longiflora is still bringing \$1.00, \$1.25 not being very plentiful, smaller brings \$1.25 to \$1.50, and is rather scarce at present.

The frequent calls for decorations during the past week cleared away a good

part of the flowering plants left over from Easter, but not all of it is out of sight yet. In every store we can still notice a lavish display of these plants, though a good part of them were not intended particularly for Easter sales. Sales in this line have been, and are now, very satisfactory, assisted and stimulated, no doubt, by the exceptionally fine weather which prevails and the eager desire of everybody to adorn windows at the opening of spring with some bright colored flowering plant, a custom which we may say is constantly growing with every succeeding year. J. B. K.

NORTH ORRINGTON, ME.—The greenhouses of George Nichols were destroyed by fire last Sunday night.

LYNN, MASS.—The Lynn Florists' Club was entertained on Thursday evening, April 14th, at the residence of city florist William Miller. A large number were present and a delightful evening spent. A committee of five was appointed to make arrangements for the annual summer outing.

SALT LAKE CITY, UTAH.—The Utah Florists' and Gardeners' Association met April 11, with an unusually large attendance. "The Proper planting and cultivation of Roses," by Hugh Cannon, was a timely topic well handled. "Grafting Fruit Trees" was a practical paper by Parkkeeper Schultheis. Thomas Holiday spoke on the cultivation of carnations and the session closed with a general discussion of matters of interest to the craft.

Write for Prices

of Beauties, Meteors, Belle Siebrecht, Perles, Maids and Brides in 2-inch; same varieties and La France and V. Kaiserin in 3-inch. Smilax in 2-inch. If samples are wanted send 50c in stamps.

GEO. A. KUHL, - PEKIN, ILL.

ROSES OWN ROOTS, DORMANT, FIELD GROWN

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet Yellow Rambler (Aglaia) Hybrid Perpetuals.

Mosses, Hardy Climbers and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

W. F. HEIKES, Manager,

1308-1310 Unity Bldg., - CHICAGO, ILLS.

AM. BEAUTY

I have a nice stock for early planting; 3-in. pots, \$6.00 per 100; 4-in. pots, extra strong, \$10.00 per 100; a few 5 in., \$13.00 per 100. California Violets, extra large clumps, \$5.00 per 100, will divide up into 10 to 15 plants. Austria Cannas, strong plants @ 2c.

W. W. COLES, Kokomo, Ind.

- 3,000 ROSA RUGOSA at.....\$100 per 1000
8,000 DAHLIAS Whole roots at \$40 per 1000
50,000 CALIFORNIA PRIVET \$20 to \$40 per 1000
100,000 SHRUBS Assorted, \$50 to \$125 per 1000.
50,000 SHRUBS Assorted, large sizes, \$125 to \$250 per 1000.
5,000 BERBERIS THUNBERGII 18 inches.....\$50 per 1000.
10,000 AMPELOPSIS VEITCHII Pot grown.....\$50 per 1000.
5,000 CLEMATIS PANICULATA.....\$50 to \$75 per 1000.
50,000 Sugar, Norway and Silver Maples 8 to 14 feet.
50,000 DECIDUOUS TREES Leading Varieties.

Satisfactory Prices. Correspondence Solicited.

THE Wm. H. MOON CO., Morrisville, Pa.

GRIMSON RAMBLER } Strong, dormant, field-grown plants 2 to 3 feet high.
YELLOW RAMBLER }

Price \$1.75 per 10; \$15 per 100. Write for list of other stock. Roses, Shrubs, Currants, Fruit Trees, &c.

Jackson & Perkins Co.

NEWARK, NEW YORK.

Roses! Roses! Roses!

Extra fine selected stock of all the leading varieties.

Bride, Bridesmaid, Catherine Mermet, Madame Hoste, Mrs. Pierpont Morgan, Perle des Jardins, Meteor, at \$5.00 per 100. La France, Kaiserin Augusta Victoria, Mrs. W. C. Whitney, Souvenir de Wootton, Madame Caroline Testout and Pres. Carnot at \$5.50 per 100. Clara Watson and American Beauty at \$8.00 per 100.

WRITE FOR SPECIAL PRICES FOR LARGE QUANTITIES.

JOHN N. MAY, -

Summit, New Jersey.

NEW FORCING ROSE

MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best bloom in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2 inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15 1898. Correspondence solicited. Address

H. WEBER & SONS, Oakland, Md.

ROSES...

PERLES } Pots 100 Pots 100
METEORS } 2 1/2 \$2 50 3 \$3 50
BRIDESMAID }
BRIDE }

Guaranteed first-class. Stock grown in low temperature.

THE E. HIPPARD CO., Youngstown, Ohio.

300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers. Send for prices. Moon Vines, \$2.50 per 100. Rose Geraniums, \$2 50 per 100.

The National Plant Company, Dayton, Ohio.

New and Rare Plants.

GALANTHUS CILICUS.

This new snowdrop was found by Mr. Siehe, of Mersina, in the Cilician Taurus, Southeast Asia Minor. It differs from all its allies by its enormous size; but for gardening purposes it has a still greater recommendation. While all the other snowdrops bloom after New Year's and cannot be or are with difficulty forced, this species flowers naturally from November to January, and is thus easy to be had in bloom around Christmas. The bulbs this year will be offered in greater quantity than heretofore.

RHEUM PALMATUM TANGUTICUM FLORE ROSEO.

A new variety of the true crown rhubarb, the flowers of which are rose-colored instead of yellow. The true crown rhubarb, once very much favored as the best sort, was cultivated in Europe in the beginning of this century, but without knowledge of its true value. Afterwards when the Canton rhubarb (*Rheum officinale*) appeared in commerce the *Rheum palmatum* disappeared. It was the well known Russian traveler Przewalski who detected again the true form of the crown or *Kiachta* rhubarb and brought home seeds of it. The late Director E. Regel of the Imperial Botanic Garden at St. Petersburg cultivated it and found it a new variety of *Rheum palmatum*, viz., var. *tanguticum*. He showed also that the cultivated root gives after some eight years' cultivation a drug which cannot be distinguished from the true crown rhubarb. Besides this the plant is most valuable as a decorative garden perennial. The leaves differ widely from those of other species of rhubarb. They are lobed, long petioled, the blade having a diameter of one foot. The color of the leaves is a purplish green. The leaf rosette has a diameter of about three feet. From the middle of this appears the flower stalk, growing six to eight feet high, somewhat ramified, but the twigs straight and directed upward, so that the whole inflorescence has a very peculiar appearance. The old variety has yellow flowers, which appear in great quantities and furnish after some weeks dark blood-red fruits. But it is a curiosity of the plant that it yields good seeds only in a colder climate, or if propagated in warmer climates by seed, only during the first two or three years. Afterwards the seeds, though full grown are sterile. The new variety *flore roseo* has flowers of a very fine rose color.

UDO DAMMER.

NEW LONDON, CONN.—Mrs. C. M. N. Sherman has sold the Piquot greenhouses to H. H. Appledorn, of Norwich, who will carry on the business at this place hereafter. This establishment was formerly conducted by W. E. Pendleton.

CINCINNATI, O.—Caroline Schaefer, with greenhouses on McHenry Road, has assigned, for the benefit of creditors, to Fyfe Chambers. Liabilities, \$2,000; assets, \$2,500. Dull trade is given as the cause of the failure.

**THE BEST FOR ALL Florists**

**ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE**

FOR SALE BY SEED STORES FOR FINE PLANTS! WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO. LOUISVILLE, KY.

Mention American Florist.

**THE MALTESE CROSS BRAND**  
**THE VERY BEST OF GARDEN & LAWN HOSE**

TRADE MARK

If your dealer does not have it, send direct to the manufacturers  
 35 Warren Street, NEW YORK. **The Gutta Percha & Rubber Mfg. Co.** 96 Lake Street, CHICAGO.

**Kraft's Plant Tonic**

For Plants, Palms and Flowers

A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale.....

The Tonic makes the foliage of the plant soft and pliable and a beautiful bright green. For sale at.....

84 & 86 RANDOLPH STREET, CHICAGO.

**VAUGHAN'S SEED STORE,**

14 BARCLAY STREET, NEW YORK.

**Cocoa Nut Fibre**

HAS COME TO STAY ON ITS MERITS.

**THE SALEM COCOA NUT FIBRE CO.** Will ship to any part of the country at \$9.00 per ton. F. O. B. at Salem, Mass.

**W. S. WARD, Mgr.,**  
 Office: Federal Street, - SALEM, MASS.

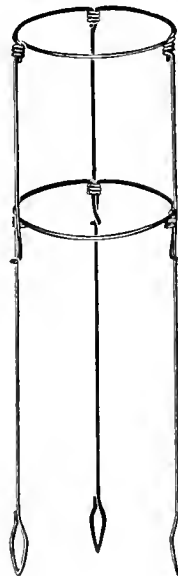
**NIKOTEEN**

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN—SOLD BY SEEDSMEN—CIRCULAR FREE—SKABCURA DIP CO. CHICAGO.

**Kill AND SAVE the BLOOMS! QUICKLY DOES IT.**

**THE MODEL EXTENSION CARNATION SUPPORT**



QUEENS N. Y., Feb. 16, '97.  
 MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.  
 Very truly yours,  
 C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.  
 MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we endorse it as an up-to-date carnation support. Yours truly,  
 DAILEDUCZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.  
 MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am  
 Yours truly, E. ASHUS.

Write for price list and discount on early orders.

**THERON PARKER,** 22 Morton St. BROOKLYN, N. Y.

**Scollay**

Sprinkler....  
 INDISPENSABLE  
 J. A. Scollay, Maker,  
 74 Myrtle Ave.  
 Brooklyn, N. Y.



VAUGHAN'S SEED STORE, Gen'l Western Agents,  
 84 Randolph St., CHICAGO.

**"Ideal"**  
**"Elite"**

FOLDING Paper Flower Boxes

Saves You Money!

THE J. W. SEFTON MFG. CO., Chicago.

**Tobacco** STEMS DUST EXTRACT

BOTTOM PRICES.

**VAUGHAN'S SEED STORE,**  
 Chicago. New York.

**PURE BONE FLOUR.** Ammonia.....14 1/2% Bone Phosphate.....3%

**PURE DRIED BLOOD.**

Send for prices and references.

**GEO. S. BARTLETT,** SUCCESSOR TO CINCINNATI, O. **Cin'ti Desiccating Co.** 1255-1257 West Sixth Street.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Cincinnati.

The tulip meeting of April 16 was the most attractive of this spring. The exhibition of tulips, roses and carnations brought out the best growers of this vicinity. Mr. William Swayne, Kennett Square, Pa., and H. Weber & Sons, Oakland, Md., were the only outside contributors. The tulip display was the center of attraction, in which A. Sunderbruch Sons were in the lead; they staged some forty varieties and scored thirty-two points. Notable among them were: Cottage Maid, Keizerskroon, La Regalis, Yellow Prince and several others equally as good. The City Greenhouses made a creditable display of palms, ferns and orchids; many favorable comments were passed upon the orchids by the ladies. George & Allen showed a fine vase of American Beauty roses. R. J. Murphy was in the lead with Gen. Jacqueminot. H. Weber & Sons staged a magnificent vase of their new rose, Mrs. Robt. Garrett, which caught the eye of every visitor. A vase of seedling carnations from the same firm were much admired and, no doubt, they will be heard from later. The new carnation, Empress, from Wm. Swayne, attracted general attention. R. Witterstaetter showed his new pink carnation, Opal, in good shape—it is a decided improvement over Daybreak and a favorite with the craft. Several other vases of seedlings deserve special mention. It was the universal opinion that a finer collection of orchids, roses, lilies, carnations and tulips were never presented to the Cincinnati public for inspection.

In the evening the regular monthly meeting was held and called to order by President Witterstaetter. It was decided that we wind up our last meeting in May with a banquet and entertainment. Messrs. E. G. Gillett and H. Schwarz were appointed a committee to make final arrangements. The president brought up the question, "What shall be done with members in arrears?" A discussion followed and it was finally decided to give them more grace to pay up. After the regular routine of business was transacted the meeting adjourned.

We regret to announce the death of Mr. Anthony Fischer, of this city. Mr. Fischer was connected with the florist business since boyhood, and his demise will be a shock to his many friends. He was 49 years of age, and leaves a widow and four daughters to mourn his loss. We extend our sympathy to the bereaved family.

H. SCHWARZ

SCHMEL, N. J. A. R. Sampson has bought the greenhouse establishment of C. H. Hagert. Mr. Sampson has been in charge of the greenhouse as foreman heretofore.

# SYRACUSE POTTERY CO. Flower Pots,

MANUFACTURERS OF

## Bulb Pans, Hanging Baskets and Saucers

OUR FLOWER POTS are standard measure and all first-class and we assure you they will give good satisfaction. We call your attention to our new pots, 6, 7, 8 and 9-inch, called the "Poro Pot." They are more Porous than any pots, smoother inside and outside, perfect drainage, and are easily washed and cleaned. Give them a trial and you will not want any other. Remember these Pots are as cheap as any other Pot on the market. Write for price list.

SYRACUSE POTTERY CO.

SYRACUSE, N. Y.

## Standard Flower Pots...

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.....

CAMBRIDGE TILE MFG. CO., Covington, Ky.



## STANDARD FLOWER POTS

FERN PANS and AZALEA POTS...

OLD RELIABLE MAKE OF Elverson, Sherwood & Barker.

Write for price list. Address

PITTSBURG CLAY MFG. CO.,

New Brighton, Pa.



BRANCH WAREHOUSES:  
Kearney and Westside Aves., Jersey City, N. J.  
Jackson Av. & Pearson St., Long Island City, N. Y.

## THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,

HARRY BALSLEY, DETROIT, MICH., Rep. 490 HOWARD ST.

## Standard FLOWER Pots

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

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Good Railroad Facilities For shipping. Special Attention Given to Mail Orders and Special Sizes Made to Order.

KELLER BROS.

NORRISTOWN, PA.

Price Lists Furnished on Application.

## STANDARD FLOWER POTS



Send for price list of Standard Flower Pots, Hanging Vases, Seed Pans and Cylinders for Cut Flowers

Lawn Vases 17x17-In. \$1.00; 6x20-In. \$1.50; Bases 12-In. High 50c. Address

HILFINGER BROS. POTTERY, OR... FORT EDWARD, N. Y.

AUGUST ROLKER & SONS, AGTS., 2 DEY STREET, NEW YORK CITY.

## FLOWER POTS

ALL KINDS.

## STANDARD POTS A SPECIALTY

List and SAMPLES FREE.

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## GEO. KELLER & SON, Flower Pots.

Before buying write for prices 361-363 Herndon Street, near Wriehwood Ave., CHICAGO, ILL.

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**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS LUMBER CO.,**  
Neposens, Boston, Mass.

## THE AMERICAN FLORIST'S COLOR CHART

is now accepted as the standard in preparing color descriptions by many foreign houses as well as in America

PRICE 15 CENTS POSTPAID.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago

**GREEN-HOUSE HEATING.**  
**MYERS & CO.**  
1518 & 1520 S. 9th St.  
PHILADELPHIA.  
Send for catalogue and price list

**EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS**  
QUAKER CITY MACHINE WORKS  
100 N. 3rd St. Phila.

Putty.

There is practically no genuine putty in the market now. Ground marble and various substances are used in place of whitening and inferior qualities of oil are substituted for linseed oil.

For some years we have purchased bolted (or sifted) whitening at about \$1 per 100 pounds and, using a good grade of boiled linseed oil, have made our own putty as needed. It is easily and quickly made and we thus get a pure article for about the same price that we must pay for the worthless imitations which are commonly sold for putty.

In glazing we add about 15% of white lead to the putty. A larger quantity of lead besides adding unnecessarily to the expense, makes the putty too hard, while if no lead is used it is not durable enough.

York, Pa.

What promises to become one of the largest plants in this part of the state is that of Mr. C. E. Smith, who will soon commence building ten additional houses, nine of which will cover 15 x 60 and one 15 x 150. Mr. Smith intends growing roses and carnations on a large scale, for in addition to his retail trade, both here and in Baltimore, there is an increased demand for his flowers from the surrounding towns. As usual, the houses will be built in fine shape and equipped with all modern appliances.

PROVO, UTAH.—Seventeen acres have been set aside on Capital Hill for a public park, and preliminary planting ordered.

Hot-Bed Sash.

Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass.
- 3 ft. 3 in. x 6 ft., 4 " 8 in. "
- 4 ft. x 6 ft., 5 " 8 in. "

Not glazed, 1 1/4 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO., Lockland, Ohio.

**H.M. HOOKER COMPANY.**  
COR. CLINTON and RANDOLPH STS. CHICAGO.

**GREENHOUSE GLASS**

**OUR SPECIALTY.**

**LARGE STOCK PROMPT SHIPMENT.**

ALSO MANUFACTURERS OF **Pure Linseed Oil Putty, Paints, Brushes Etc.**

WRITE FOR LATEST PRICES

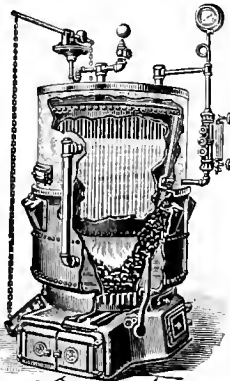
Wheeler-Stenzel Co.

IMPORTERS AND JOBBERS OF

Greenhouse Glass

72 Sudbury St., BOSTON, MASS.

—THE—  
**GORTON SIDE FEED Boiler**

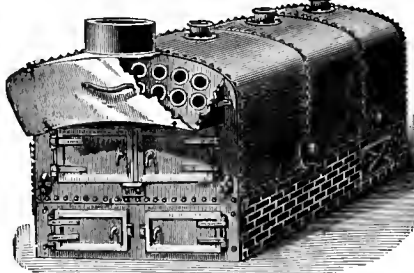


is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

**GORTON & LIDGERWOOD CO.**  
96 Liberty Street, NEW YORK.

**KROESCHELL BROS. CO.**  
IMPROVED  
**Greenhouse \* Boiler,**  
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

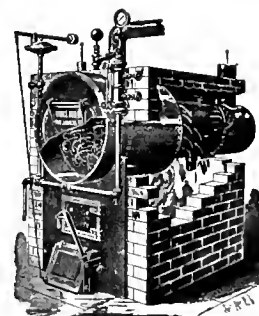
If corresponding with an advertiser at any time, say "saw your ad. in the AMERICAN FLORIST."

**VANCE BOILERS**

**ARE THE BEST**

For Heating Greenhouses, Conservatories and Dwellings.

Our boilers consume all gases from the fuel, therefore making it the most desirable boiler for greenhouse heating on the market.....



Send to-day for Catalogue and Price List.

**Vance Boiler Works,**  
399 LAKE AVE., GENEVA, N. Y.

**LOUISIANA Cypress Green House Material.**



**RED CEDAR**

Write for Estimates.

**Shading.**

The question as to what is the best material for shading greenhouse glass has been a troublesome one to us, but we think we have solved it fairly well.

Whitewash has a bad effect on the painted bars and is sometimes hard to remove. White lead dissolved in cheap kerosene is very satisfactory, but expensive.

We used last year pure putty dissolved in kerosene, and found it to work perfectly, except that it was a little more difficult to remove than we liked. This was probably due to too large a proportion of linseed oil. This year we have added to the putty about half its bulk of dry whiting, thus giving a greater dilution of the linseed oil, and we feel confident that we have pretty nearly the ideal shade—cheap, effective, lasting, but easily removed when the proper time comes.

It is applied with a whitewash brush, a strip down the center of the glass at first, leaving the sides clear, later covering the whole glass, and when a heavy shade is required a third application still later all over the glass. X.

DAVENPORT, IA.—Mrs. F. L. Bills' floral store is now finely located in the Rothchild building at the corner of Second and Brady streets.

WATERTOWN, Wis.—James Whelan, the venerable nurseryman, died at his home here on April 15. He was 65 years of age and leaves a family.

OCONOMOWOC, Wis.—Otto Sylvester, last week, shipped 12,000 violets to Chicago, and 14,000 to Milwaukee. He also shipped 2,500 carnations to the latter city.

THE Cape Ann Horticultural Society has elected the following officers: President, Bennett Griffin; vice-president, Andrew P. Lufkin; secretary, Wm. D. Lufkin; treasurer, George P. Rust; executive committee, John Cronin, L. H. Higgins, Chas. Bradstreet.



You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to

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**FIRST-CLASS GOODS and CORRECT PRICES**



have forced us to the front and today we are the largest manufacturer of...

**IRON RESERVOIR VASES**

and Lawn Sevens in America. A 40 page catalogue for the making

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108-114 Liberty St., COLUMBUS, O.

Mention American Florist.

# Clear Cypress Greenhouse Material.

This *with us* means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Write for Circulars or Estimates.

**Lockland Lumber Co.,**  
LOCKLAND, O.

SEND FOR FLORISTS PRICE LIST AND CATALOGUE FREE UPON APPLICATION

**Gurney**  
TRADE MARK  
**HOT WATER HEATERS AND STEAM BOILERS**  
THE STANDARD OF EXCELLENCE FOR THEIR RESPECTIVE REQUIREMENTS.  
**GURNEY HEATER MFG. CO.**  
74 FRANKLIN ST. BOSTON, MASS. NEW YORK CITY BRANCH, 43 CENTRE STREET.

# Water

For Greenhouses, Garden and Lawns in liberal quantities, every hour of the year, whether the wind blows or not.

**Improved Rider Hot Air Pump**  
**Improved Ericsson Hot Air Pump**

Can be run by any ignorant boy without danger. Explosion impossible. Prices greatly reduced. In use in every part of the world.

**RIDER-ERICSSON ENGINE CO.**

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86 Lake St., CHICAGO.  
29-31 N. 7th St., PHILADELPHIA.  
Send for catalogue "A 3."

**NEW & SECOND-HAND MATERIAL,** purchased from Sheriff, Receiver, and Auctioneers, sales at less than one-half price. Pipe and Fittings, Hoop, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Bone, Light Wrought Iron Pipe, Glass Wash, and thousands of other articles, for sale by  
**CHICAGO HOUSE WRECKING CO.**  
Largest Mail Order Depot for New and Second-Hand Material in the World.  
W. 35TH & IRON STS., CHICAGO.  
Write for our free illustrated catalogues.

**FOR SALE CHEAP.** GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. **THE REED GLASS & PAINT CO., 456 W. Broadway, NEW YORK.**

**JOHN C. MONINGER CO.**  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.  
SEND FOR CATALOGUE.

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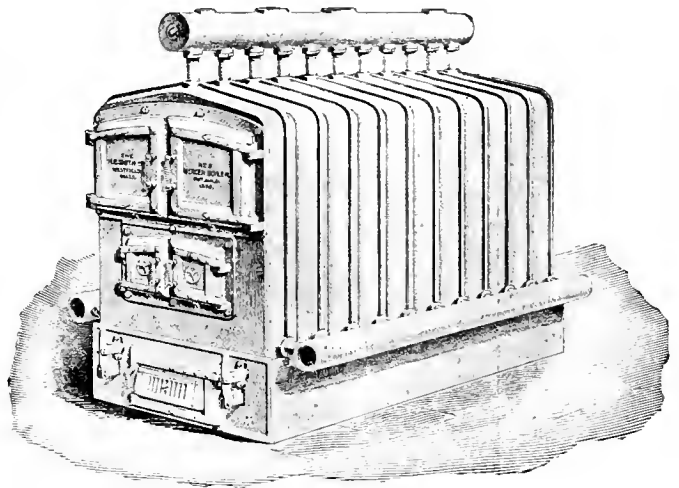
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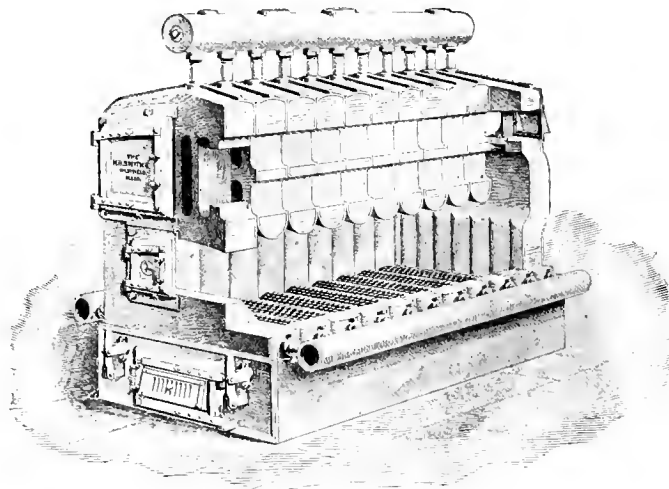
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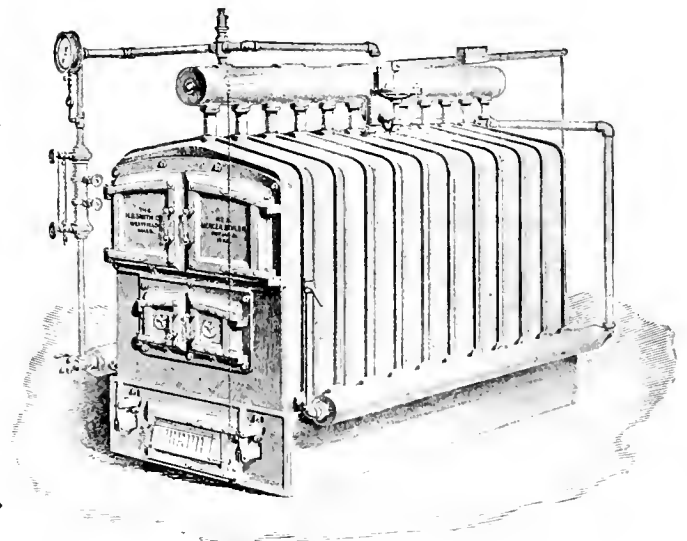
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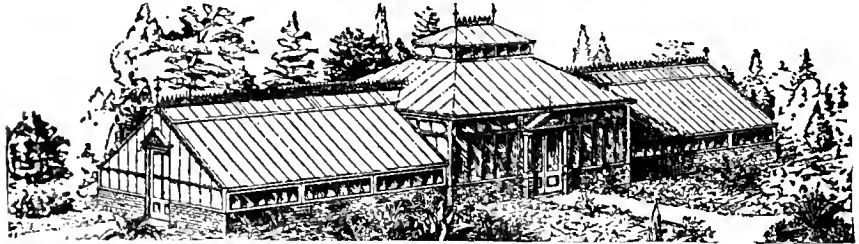
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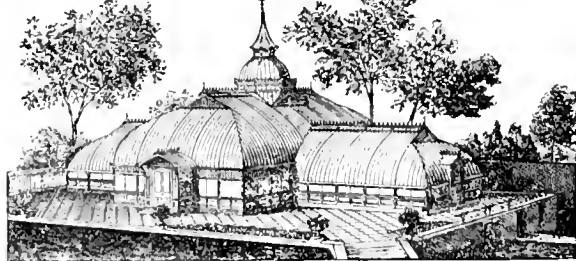
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## THE AMERICAN FLORIST

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Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

### CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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THE NEW DIRECTORY of florists, seedsmen and nurserymen of the United States and Canada will be ready for mailing soon. Twenty-five hundred new names. Postpaid for only \$2.

### Bedding Plants.

[Abstract of a paper read by Charles J. Strombach before the Chicago Florists' Club, April 28.]

The subject, I think, is pretty well thrashed out already, but as you wish me to say something I will state what plants we use for bedding in Lincoln Park. For early spring effect tulips, hyacinths and crocuses are planted the fall previous in fields of separate colors or in mixture. The effect is good and pleases the general public for a couple of weeks. Pansies are also in bloom at the same time; I sow the seed at Christmas and grow them along all winter, and by doing so get them to endure the heat better than the fall-sown plants, which are more slender and wiry and so cannot stand the hot weather as well as those grown in the winter.

After the tulips are ripened off they are taken up and stored away; the beds are manured, dug and planted with geraniums of varieties suitable for bedding; Mrs. E. G. Hill, salmon pink; La Favorite, double white; Bruant, scarlet; Rev. W. Atkinson, dark velvety scarlet; Invincible, semi-double crimson. Ageratum, Cope's Pet, blooms all summer if not given a too rich soil or too much water. Begonias are valuable as bedding plants; they will bloom from spring till fall if fairly strong at planting out time. Torenia Fournieri is also a good bedder, and if not sown too early—say middle of March—will bloom till frost. Its pretty violet-purple, pansy-like flowers marked with yellow in the throat are by some persons called "Johnny-jump-ups."

Pentstemon campanulatum varieties are effective for bedding sown from seed or propagated from cuttings; fairly strong plants in 3-inch pots will bloom early and continue till frost. The roots can then be taken up, trimmed back and kept in a temperature of 55° or 60° through the winter, when the plants can be again used for bedding. Vinca alba, V. alba-oculata and V. rosea are elegant bedders, flower all summer and have grand dark green glossy foliage making such a fine contrast with the flowers.

Ten-week stocks are good for early bedding if well grown. We sow the seed in the latter part of January, prick out in boxes when big enough to handle, plant in 2½-inch pots after fourth or fifth leaf appears, using sandy loam. When well rooted in this, pot up in 3-inch pots, to remain till planting out time. As soon as flower buds appear we can select the double ones to be planted out. They make a grand show till the middle of July when they must be replaced by Celosia cristata nana, which is in 4-inch pots at that time and remains in good condition till fall.

Single petunias of good varieties are useful for bedding, as they give a profusion of flowers all summer. Gomphrena globosa is valuable for its heads of brilliant and enduring tints. Phlox Drummondii, if sown in April will bloom till fall, but if sown earlier it will lose its vitality in the latter part of August and must be replaced by something else. Verbenas have been used in park bedding to good advantage in years past, but for the last few years in the latter part of August they became mildewed, which injured the effect of the garden.

Cannas are used to a great extent here and produce a brilliant effect with both flowers and foliage. I have forty varieties, but the most prominent at present are Egandale, Chicago, Florence Vaughan, Stella Kanst, Madame Crozy, Souvenir d'Anton Crozy and Queen Charlotte. All of these are, as you all know, great acquisitions to the flower garden because of their great blooming effect. Carpet bedding is still retained to some extent to please the general public, but we draw a little away from it each year.

A great many annuals that I used to grow for bedding in the Old World are not of much use in this climate, as their duration is short when hot weather sets in and we must try to keep our beds in presentable condition all summer without too much labor. There is no doubt in my mind that our flower garden and bedding will receive some of our most beautiful perennials in time, but we go a little slow because if we go too fast we may be condemned by the public, as it has become accustomed to the present system or fashion.

### Herbaceous Plant Notes.

Plants in the herbaceous borders had an unusually early start this spring. The mild weather during March favored the early development of the spring flowers and many of the plants which in ordinary seasons would not be ready to bloom until the middle of April were almost fully out in the latter part of March. Especially noticeable was this in slightly sheltered positions, on southern slopes or on the sunny side of hedges, buildings or tight fences.

We had a few clumps of Primula acaulis in a southeastern exposure well covered with their showy pale yellow flowers long before April, while those planted under tall trees, though plenty of sunlight could reach them all day, have not yet (a month later) fairly developed their flowers. The former clumps were out at the same time with the scillas and snowdrops, both of which are past now, but the primulas are still as fine as at

the beginning and will hold out, apparently, for a long time to come. A few hybrids of *P. acaulis*, which were planted last season, show great variety in color, golden yellows, pale and coppery red shades, velvety brown and deep, dark crimson purple, but most of them do not show their near relation to *P. acaulis*, producing their flowers in umbels on stems not so tall as in *P. variabilis* or *P. officinalis*.

The large leaved saxifragas sent up strong spikes of their finely colored flowers and were nearly at their very best when, early in April, a few nights of severe frost threatened to destroy their beauty; but only in the most exposed situations did they suffer any, and most of the plants are as attractive to-day as they were before the cold snap. Aubrietias in variety were among the earliest flowers in the border; they form a dense green cushion in winter, and as soon as the frost is out of the ground the buds make their appearance, opening out one after another until the whole mat is covered entirely with pretty bloom, varying in color from pale lilac, almost white, to deep blue and purple, and we have them also in pink and reddish tints. They are most desirable plants for spring gardening, and when combined with any of the dwarf phloxes, arabis, alyssum, primulas, etc., can not be surpassed by any display in a bed of early bulbs. These plants, moreover, will retain their beauty for a much longer time than tulips or hyacinths or any of the spring flowering bulbs.

The hepaticas were out in good style a month ago, yet not one of the little flowers has dropped a single petal up to date and buds are still coming up among the bronzy young foliage; but this is only true with the old, well established plants which have not been disturbed for some years. We can not reasonably expect such an abundance of flowers from plants one year old, but when they are once well established in a spot, few plants are equal to them for supplying early bloom in our gardens; and they may be planted in places where most plants would refuse to grow at all, on dry knolls, under the shade of trees and in the poorest soil they will always reward us with a profusion of flowers in early spring and do not need any attention for the rest of the season; their long roots are capable of finding enough moisture in the ground in the driest weather.

Another charming little plant for early spring is the charming *Anemone* *thalictroides*. The pure white flowers are produced very freely on elongated stems; it continues to bloom for several months, and its finely cut, trilobed foliage is hardly less attractive than the flowers. The habit and growth is very neat and graceful, though the plant only attains a height of from four to six inches at best. *Mertensia Virginia* has opened its lovely flowers of a peculiar shining shade of blue, it blooms freely in almost any position, but probably lasts best when planted in partial shade. The pulmonarias are now densely covered with flowers. On first opening they are red and turn to blue afterward, the eyes showing both colors distinctly at all times. *Arabis* has made a splendid show since the first of the month with large heads of white flowers. This is among the hardiest of perennials early in the season. *Viola*, with like pink flowers, somewhat smaller in size but very early, deserves to be grown more generally, it will bloom in the snow, disappears the grade. *Alchemilla*, too, is now seen in profusion in the borders, its re-

markably free blooming qualities and bright cheerful color call for the admiration of everybody.

*Phlox subulata* gives us sheets of white or pink wherever they may be allowed to spread; no foliage is visible so long as the flowers last in perfection and the plant grows only a few inches high, perfectly smooth and even. *Iris pumila* is conspicuous in many places at present; it increases and spreads rapidly and produces a pleasing effect among the smaller spring flowers. *Doronicum Anstriacum* and *D. Caucasicum* are among the few early blooming plants which grow a little taller than the average and are most serviceable to relieve the monotony of a smooth surface in an extensive patch of creeping or dwarfer things; the large,



REINHARD MAITRE

bright yellow daisy-like flowers are very acceptable so early in the season. *Polemonium reptans* has been opening its charming blue flowers for a week past; the plant is neat and graceful in appearance; it will not lose its floral attractions for a month yet or longer, and the foliage is handsome throughout the season.

*Caltha palustris* fl. pl. was in flower with us during October and November and is now again in grand shape, though for earliness the ordinary single variety is two or three weeks ahead of it. Most people have an idea that the calthas can not be grown successfully in an ordinary border, that a marshy or wet place must be prepared for them. This is an error, for we have grown them for years in rather dry situations, exposed to the full action of the sun at all times and have not noticed any bad effect resulting from this treatment. The sanguinarias have sprung up with leaf and flower some time since and may last a great while yet if the weather keeps moderately cool, but a few hot, dry days would finish them.

*Saxifraga Virginiana* is not much grown, but I like it in the border, for it flowers early and usually lasts into June. The small white flowers are produced on a branched, compact stem, eight to ten inches high, and they are really pretty. *Tiarella cordifolia* has long and erect slender spikes of interesting small white flowers growing from ten to twelve inches high, they spring from a dense mass of pretty foliage. The plant suc-

ceeds in almost any place, but is especially adapted for rock work. The large flowers of the yellow *Adonis vernalis* appeared in the latter part of March, and are still in good condition. When planted in bunches or patches this is an ornament in the border, but small single stools are lost sight of among the surrounding plants unless these are very low. In some places they refuse to establish themselves as readily as ordinary things, but where they can have the benefit of a moist, well-drained soil, success is almost certain. They do not like to be disturbed at the roots and should be let alone for some years. The foliage is cut and lacerated into narrow segments and is very ornamental during the spring months; the plant attains a height of ten or twelve inches.

Not many of our florists are prepared to furnish any of these or kindred hardy flowers, though it cannot be denied that the demand for herbaceous plants is increasing every year. This demand, by present indications, will continue, and, therefore, it would be a good time to start in now preparing a stock for another season by saving the seeds of such species and varieties as may be obtainable. Some of the late summer and fall bloomers may flower the first year; the majority will, with proper care, make strong salable plants by next spring. With almost all of the double varieties of the various species it may be advisable to procure a few plants for stock, dividing them as they increase and spread.

Rochester, N. Y. J. B. KELLER.

#### Obituary.

REINHARD MAITRE.

Reinhard Maitre, one of America's pioneer florists, died of heart disease at his home at New Orleans on April 14. His remains now rest in beautiful Metairie cemetery. Deceased was born in Baden Baden, Germany, in 1830, and located in the Crescent city forty-six years ago when he was a young man of 22. In 1855 he married Christine Rehm, who survives him. They had no children.

Mr. Maitre spent his lifetime in floriculture, for he was a lover of nature's beautiful gifts to man. His artistic taste won him a national reputation as a horticulturist and landscape gardener. The finest grounds in New Orleans, both public and private, show the results of Mr. Maitre's fostering care. He was an unostentatious man, fond of his home, his books and his flowers, and in his death his city and the Society of American Florists lose one whose endeavors have done much to beautify and smoothen life's pathway.

WILLIAM BIGGS.

William Biggs died at his home in Baltimore on April 22. He was 61 years of age and leaves a wife and seven children. Mr. Biggs had devoted many years to floriculture and landscape gardening.

#### Carnations.

Carnations are fast beginning to go down hill now, and it is as well to clean up any of the houses or any of the varieties that do not come up to the standard of excellence for a fair price. For it is certain folly with a declining market to dump a lot of second class stock on it to further depreciate values. Those houses or varieties that are doing well should be well taken care of. All colored and even the white varieties will be the better for a little shading any time after May 1. Ventilation is needed in abundance, and water should be applied frequently with

the syringe, so that the foliage may be sent in free from spider.

It is a good time now to watch the effects of syringing on the rust if you have any varieties that are affected with it. Some growers assert that syringing daily has the effect of increasing it and others assert that it has the opposite effect. For myself I must confess to being on the fence, as I can see little difference either way. Possibly in different soils there may be different results, and it is a matter worthy of a little attention now when syringing is a necessity from other causes.

Disbudding, tying and keeping your stock up to the standard is as necessary now (if not more so) as during the height of the season, for it is in a falling market that quality tells. A great many growers do not seem to fully realize that they are helping to keep the carnation a cheap flower and to keep down the legitimate profit they should have from their houses by placing a lot of carelessly grown stock

Once carnation growers as a class can say to their commission dealers, "We insist that none of our carnations shall be sold for less than \$1 per 100, and all that will not bring that figure are to be returned to us," they will be surprised to learn how many could be sold at that figure and over, that are now sold for much less; and they would also learn what to avoid in the way of bunching, counting and packing, and what varieties to discard. ALBERT M. HERR.

#### Notes and Comments.

##### PELARGONIUMS AND FUCHSIAS.

I dropped in the other day on George E. Campbell. Mr. Campbell is well situated both for local trade and to furnish well-grown stock to the retailers, being conveniently located and within fifteen minutes to half an hour's drive to most of what we call the city florists. Mr. Campbell is very much pleased with

old varieties? For my own gratification I have been picking up varieties of fuchsias wherever I could, and among them I have one which came to me labeled "Elm City," but if it proves to be the good old Elm City I grew twenty years ago, I shall be very much surprised. Black Prince is of more recent introduction, yet it may be termed old, for I have known it for at least fifteen years. Why it was named Black Prince I never could understand. It could not be on account of the flower being dark, because it is not. The midribs and stems of the young growth have a somewhat dark hue; possibly that is the reason for its name.

However, be that as it may, it is very popular market sort, and is perhaps grown more largely than all the rest of the varieties combined, that is to say, in this city (Philadelphia). It is a good grower, makes a nice shaped plant, and is easily carried through the hot, dry summer weather. I remember a good



HOUSE OF MAYOR PINGREE CARNATIONS, GROWN BY C. W. JOHNSON.

on the market at this season of the year. It is claimed that as no coal is required and very little attention but watering that even at the prices realized they are paid for their work. Possibly they are, but any carnation that will not bring at wholesale \$1 per 100 should not be put on the market, because whenever you get below that mark you are cheapening the better grades in proportion.

It is to be hoped that as a natural result of the production of fine varieties the prices will rise to their standard and that in a few years \$2.50 will be a low-water-mark price, and the better grades will average up to \$12 or \$16 per 100. This getting up to a paying level in carnation culture will, however, be an uphill job so long as carnations are sold as low as 10 and 25 cents per 100 over the counter of the commission man, and the grower is willing to have a return at the end of the season of one-eighth of one per cent on the money he has invested. This is not an imaginary profit but an actual one in some instances.

the comparatively new zonal pelargonium Alphonse Ricard. It belongs to what has been styled the "Bruant" and "Sunproof" race, having strong foliage of heavy texture. The individual flowers are large and numerous, and the trusses are the largest I have seen. The color is a light red. Mr. Campbell expects to go into this quite heavily. He has a fine stock of the show and regal pelargoniums—the one he calls Maud he thinks a great deal of; it is dark red in color with darker blotches. It has the advantage also of being dwarf and neat in manner of growth.

We were comparing notes about fuchsias. The fact was deplored that though most of the new varieties had very large flowers, yet the habit of growth was not nearly so good as in some of the old-timers, such as Elm City, Inimitable, and similar types. I forget the amount that Joseph Campbell—father of George—who joined us, said he would give for an old stump of Inimitable. What has become of these good

old kind called Maori Chief, though the name was changed to Modoc Chief by some of our old-time Philadelphia catalogue men, whether by accident or because it was easier to say, I do not know. Lord Byron is grown to some extent for market, and a very beautiful single flower it is, with rich plum colored corolla and red sepals, but it is not nearly so good a grower as is "Gracieux," which appears to have been renamed "Little Beauty." This is the best variety that I have so far seen for some time for a market fuchsia. At present the indications are that it cannot be grown to a very large size from green cuttings for spring sales, but it certainly can be grown into a very pretty shape. The corolla is single and in color it is a delicate light bluish purple, and it is covered with buds and blossoms from bottom to top.

#### ADVERTISING.

This is worthy of our deepest thought and most intelligent consideration. I have been an advertiser "off and on"

for twenty years. When I first tried the influence of printers' ink to draw trade it was through the medium of the good old *Gardener's Monthly*. Like most other advertisers I have had varying success—sometimes I would make a big hit, and at other times I would miss the mark—all of which caused me to do a lot of thinking and some experimenting.

A few years ago I advertised in both trade papers. There were only two at that time. I felt reasonably sure that both papers went to about the same class of people, and in order to get an idea as far as I could which gave the best returns, I made a difference in my post office address in each paper, though not enough to cause my letters to go astray. After what was considered to be a fair trial it was found that six to one more inquiries were received from the advertisement in the trade paper which I now use exclusively as an advertising medium than from the other one. This was certainly food for thought, though not conclusive evidence that the other medium was no good.

An advertiser of my acquaintance, who uses only one trade paper—the AMERICAN FLORIST—at the present time, recently received two orders for stock as advertised, and in addition to writing the orders the correspondents went to the trouble to state that they saw the advertisement in the other trade paper, or in other words, in that one in which it did not appear. The only explanation, apparently, is that a persistent request is made by the trade paper which did not have the advertisement therein, yet was given credit therefor, to advise its readers when writing to mention their paper, or words to that effect, with every advertisement. It is a good scheme may be for the paper because it becomes so impressed upon the minds of its readers that they are liable to make the mistake of giving credit where credit is not due without being conscious thereof, but it is hardly treating its readers and advertisers fairly because it creates a wrong impression.

The AMERICAN FLORIST might try the same or a similar plan to its advantage possibly, and it would act as a counterpoise upon the general readers. I would not, however, approve of the making use of the space paid for by the advertiser to accomplish the reform, because this looks too much like taking an undue advantage of your patron: "getting the penny and the cake" both, as it were, or rather using for your own aggrandizement that which some one else has paid for. I am authorized to give the above advertiser's name to anyone wishing to know who it is. E. L.

#### Among Chicago Growers.

There are very few places in this country where so many growers of cut flowers have collected as have assembled at Bowmanville, just north of Chicago. Here were located some of the first establishments ever erected for the purpose of supplying the Chicago cut flower market and here to-day is the seat of that large industry.

W. Jacques was the first florist to build at Bowmanville. Other pioneers were W. D. Allen, A. T. Jackson and A. V. Jackson. Twenty years ago these growers owned a combined area not exceeding 30,000 feet of glass. Now 1,200,000 feet is not more glass than is there. Of the old guard, A. V. Jackson is the only one who is still in business, but Otto Ristow, Julius Ristow, August Grossman, Herman



McCoy's Store, Tacoma, Washington.

Bauske, J. A. Budlong, the Reinbergs, Peter Shaffer, Anton Then and others have spent sufficient years there to have built splendid businesses.

Among the finest carnations which reach the Chicago market are those from Weber Bros., 2408 Lincoln ave. This firm grows but three varieties, the Lizzie McGowan, Daybreak and Tidal Wave, which they plant early in about equal proportions. These carnations have been in bloom continuously since September 20th and are now in perfect health and vigor. Weber Bros. are meeting with good success with Kaiserin roses, which are just now showing buds which promise an abundant crop at just the season when Brides will begin to be scarce. For summer bloom the Webers take up their Kaiserins in the fall and keep them in a cold frame through the winter until March or April when they are replanted on the benches.

Manguson & Pearson are cultivating mushrooms quite as extensively as they are roses and carnations and find them a paying crop. They have three houses devoted to mushrooms, one house being built expressly for this purpose with benches one above the other, the second bench being twenty inches above the lower bed.

The greenhouses of Otto and Julius Ristow are joined end to end. They have everything in excellent condition. Otto was one of the first florists around Chicago to make a success of American Beauty. Julius has two large new greenhouses in course of construction.

As a rose grower Herman Bauske has no superior. He grows most of his rose plants two years on the benches, and says that the greatest success which he has ever had was with Beauties which had been forced one year and then replanted. Mr. Bauske is erecting five new greenhouses, each 21 x 260, which he expects to have completed by June 1.

The establishments of the Reinberg brothers are entirely separate, that of Peter being on the east side of the dividing alley with that of George upon the west. The two began in their present locations ten years ago, building ten houses, four for George and six for Peter. Each

year since 1888, they have made additions to their buildings and at present each brother has nearing completion six new houses, 21 x 265. With these each will own one-half of 600,000 feet of glass. This immense place is devoted to the production of cut flowers, principally roses, although within the last year or two they have gone into carnation growing upon a large scale. Quantities of young roses and carnation plants are also offered in the market. Seven years ago the firm of Reinberg Bros., now located at 51 Wash-bash ave., was organized for the sale of the product of their establishments.

J. T. A.

#### The Growth of Floriculture.

It is not a great many years since floral establishments of any importance were confined to the eastern portions of the country. Now, however, they are to be found in every town or city worthy of the name from Maine to California and from Virginia to the State of Washington. The truth of this is fully borne out by the illustrations of stores which have appeared in our pages at various times. Last December, for example, we reproduced a photo of F. E. Gray's store at Los Angeles, Cal., which will compare favorably with the best of any section, and the same may be said of McCoy's, of Tacoma, Wash., whose place is shown in the accompanying engraving.

#### A Means to an End.

Your humble servant recently had the temerity to stand before his betters and express himself on the subject of "The Florist versus The Flower Show," a topic of which he does not profess to know it all, although he has had considerable opportunity to learn, if an active experience covering the past nine or ten years, and embracing a variety of spheres can be counted on the credit side. His main idea was to say a few words for the flower show as a means for widening the florists' market. An attempt was made to show that the feature of prize money was not the all important object to the commercial

grower; but that it is, on the contrary, a really minor consideration. Incidentally, the question of what constitutes a successful show was touched on and the too frequent habit of applying the touchstone of the box-office as the only criterion was mildly criticized.

All this was expected to meet with a more or less general assent, and the writer was greatly surprised at the storm of controversy indulged in on the subject. But what is most to be regretted is the fact that but few of those present grasped the idea that was attempted to be brought to their consideration, namely, that the flower show is a means to an end—the widening of the market for the growers' product. How much thought does the average florist give to how he is to sell his stock when produced? You see oceans of advice to him how to grow his crops. Week in and week out he is deluged with cultural instructions of the most copious and exhaustive kind; but how seldom is there a word as to the disposal of all this fine stock. Is not the selling of as much importance as the growing? Should not that department of the business receive as much thought and discussion?

No doubt it was the writer's own fault that he missed his mark although he tried to make himself clear. Some say that his language was too common; that vulgarisms abounded; that members of the Browning Society, of Boston, and the Pantfollian Society, of New York, who were present were shocked at the expressions used; that the words "bosh" and "kidney" were uttered in their presence. This frightful "break" probably accounts for the state of tremulous indignation into which some of the attenuated cultures were precipitated during the discussion. Expressive American idioms may do very well for the mob but should undoubtedly be kept in the background when the frou frou, and the kid glove, and the simper appear. It is also brought out in terms of reproach that this common man isn't even "a grower." Alas, alas, 'tis but too true! He was brought up at the plough and has been dealing among farmers and gardeners all his life, but yet he is no grower, only a seedsman. The seed trade is, however, a business in which the selling end is studied as well, if not better, than the seed growing part, and therefore a seedsman should not be the very worst adviser on the matter of widening the market for the florist. The criticism, if it means anything, means that only a grower is capable of talking intelligently on the subject. On the contrary, it is generally accepted that one can see things clearer at a little distance than when right under his nose.

As to being a theorist the man that is not a theorist does not amount to much. Theories, or ideas, are required to the beginning of all things. The theories may not always be correct but that is not the point. To condemn a person for being a theorist is about on a par with condemning a man for being young. It is related of William Pitt, or Benjamin Disraeli, or both, that this serious crime of youthfulness was once triumphantly charged to them. No doubt their accusers not only thought them guilty of being young men, but also of being thinkers, or theorists. However, William and Benjamin both survived and therein is a crumb of comfort for a humble admirer of these great men. This common, eight-day person pleads guilty to the serious delinquency of being a theorist—and a young man to boot—not because he wishes to be so but because he was born that way. Furthermore he hopes to keep hearty and vigorous

for many a day and always full enough of the healthy effervescence of youth to have some ideas to express for the good of the grower and the good of himself.

G. C. WATSON.

#### The Yellow Daisy.

The yellow daisy *Etoile de Lyon*, is a very acceptable addition to this popular class of plants: while quite common in the large cities, it is not as yet widely disseminated, this being only its second season. Frederick Burki of Allegheny City, Pa., is credited with sending out this really valuable variety, which he imported from Germany. Some years ago a large yellow daisy similar to this in appearance was forced for the New York market (we do not recollect the name), but it proved to be such a shy bloomer that the room was soon taken up with more productive stock.

*Etoile de Lyon* is not much of an autumn bloomer, but from January until the summer months it can be counted on for a continuous crop of fine large flowers from two and a half to three and a half inches in diameter, borne on good long stems. The flowers when cut keep for a long time and this quality makes it especially desirable to the retail florist. For the Easter trade it makes a very showy specimen, as the accompanying illustration shows. An 8-inch-pot plant carries from 100 to 150 flowers and well clothed with foliage.

K.

#### Fern Notes.

##### ADIANTUM FARLEYENSE.

In a recent issue of the *Gardeners' Chronicle* notice a correspondent writing from the United States, says: "The summer is the most trying time of year for the above owing to the dry heat, but this is overcome by throwing plenty of water about, especially overhead," and adds, "English gardeners would no doubt consider this a dangerous practice." Now, this reminds me of an incident which occurred while I had charge of the plant houses at the Royal Horticultural So-

ciety's gardens, Chiswick. In one little house, I had an arrangement of choice foliage plants, such as crotons, dracaenas, palms, and a number of other subjects, including among ferns some fine plants of *Adiantum Farleyense*. The whole house was syringed regularly every morning and evening, the *Farleyense* seeming to appreciate a shower as much as any of the other plants. A lady visitor happened to come along one morning, just as I was using the syringe, and was much distressed at what I was doing, saying I was certainly destroying those lovely ferns, and advised me to see some one in authority before I did additional mischief. After listening to further protests, I informed her that I was in authority myself, and had subjected the *Farleyense* to the same treatment for a considerable time. The lady seemed more than ever astonished at this and told me that her gardener was always afraid to let a drop of water go on the fronds. I gathered, however, that the gardener never grew *Farleyense* satisfactorily, and I fancied he would hear something about it when the lady returned.

Now, I believe it is not an uncommon mistake to keep this beautiful fern too dry. To have healthy plants they must be potted in a rough porous compost, and when growing freely they take up a lot of water. As soon as they get a little too dry, the pinnules curl up and generally the under ones suffer first. The pinnules which have suffered cannot absorb the water afterwards, but begin to decay as soon as wetted and cause what is usually termed damping. The roots having probably suffered as well, the plants soon get into a weak, unhealthy condition, which is frequently attributed to too much moisture, whereas the opposite has been the primary cause of the evil. I do not recommend the too frequent use of the syringe, but in hot dry weather it is certainly beneficial when used judiciously.

##### DICTYOGRAMMA JAPONICA.

This is now included with the gymno-grammas, but is very distinct from the



THE YELLOW DAISY, ETOILE DE LYON.

calomelanos group, being destitute of the farina or powder, which is so conspicuous in the gold and silver varieties. The fronds are also of a thick coriaceous texture. In seedlings the first fronds are divided into from 3 to 5 pinnae and when more advanced they have from 5 to 7 strap shaped pinnae on either side and terminate in one longer and more pointed. The basal or barren fronds spread over the pot and the fertile ones grow nearly erect. When well managed this makes a most useful fern for decorations and deserves to be more extensively grown for florists' work. Fertile fronds are not so abundant as in many ferns, and the spore cases are inconspicuous. To mature spores the plants should be grown in a cool house with rather a dry atmosphere. Good spores germinate freely, and almost as quickly as those of the gold and silver ferns. In a young state they are slow compared with pterises, but after they once get a start they make more rapid progress. This fern is especially adapted for early spring work. As its name implies it is from Japan, and succeeds well under cool treatment; it should be potted in a loamy compost. If kept in a cool house through the winter and started in heat early in the year, young fronds are thrown up freely, and it takes a very short time to establish a good plant if there is a strong crown to start with.

I should have mentioned that the fronds are of a deep green, with a bright glossy surface. There is a variegated variety with fronds of a lighter shade, and a pale yellowish green, irregular linear marking. This is, perhaps, the most useful of the two, and finds more favor with our market growers.

**ASPIDIUM TUSIENSIS.**

It is now some years ago since I first met with this useful fern. It appears to be closely allied to *Aspidium* (*Polystichum*) *aculeatum*, but differs in being of a darker color; the stipes and scales are almost black; the deep green fronds have a bright surface, it forms a most compact and symmetrical plant, and being of a good substance and nearly hardy may be used where many other ferns would quickly perish. Spores are always plentiful and germinate freely. It is not so rapid in growth as many ferns, but this is made up for by the time the plants last in good condition after they are established. I should have mentioned that it may be grown in loam, and an intermediate temperature, a dry atmosphere must be avoided or thrips will be troublesome.

I believe this is the same fern as referred to and illustrated at p. 557, under the name of *Aspidium tensesense*. I have found there has been some confusion as to the spelling of the name, but believe the name heading this note to be the correct one.

**ASPIDIUM COCTACEUM.**

This is another useful fern which is not much grown. It does not come quite so free from spores as many, but with care good batches may be obtained, the chief thing is to take the spore fronds as soon as the capsules begin to open. Take most of this class, the seedlings are slow of growth, but the fronds are of great substance, and a bright fresh green, lasting well under cool treatment. The above which comes from Australia is usually given as synonymous with *A. Capense*, but this from South Africa, though botanically similar to the above is sufficient to be distinct for horticultural purposes to preserve the name of the Cape variety being of inferior quality. The rhizomes are slender, and grow out freely, making a compact fern, both in a young and in a small

state. In the Australian variety the rhizomes are conspicuous and covered with reddish brown scales. When well grown it is most effective as a pot plant, and there are few ferns which last as well; in the cool fernery it is always effective. I may mention that this fern is usually catalogued with the polystichums. *Aspidium setosum* is another species which may be grown, and makes a nice plant under similar treatment, but grown in heat it is of little use.

**SMALL FERNS.**

From now onward, during the time Dutch bulbs are flowering, small ferns are more in demand than at any other season of the year, and it is perhaps the most

temperature of 65 to 70°. They must be well exposed to the light and watered carefully; overwatering is very damaging at any time but more particularly with fresh potted stock during the autumn. They may be kept growing freely nearly up to Christmas, when they should have rather a cooler position. Placed on a shelf where they get all the light possible, they will mature their fronds and harden off. Care must be taken that the temperature does not fall too low, especially when first removed from heat, or the fronds will go rusty. Many collections of ferns have this rusty appearance of the fronds in winter, due to random changes of temperature. **A. HEMSLEY.**



**POLYPODIUM NIGRESCENS**

**Polypodium Nigrescens.**

difficult period to have useful material, for the autumn grown fronds will begin to get shabby and the new fronds will be too tender. It requires some forethought to have really good stock for early use. It is chiefly the varieties of *Pteris serrulata* and *P. cretica* that are most serviceable. To ensure good stock, a batch of healthy seedlings should be ready for potting early in September. If these are potted in little clumps of four or five plants together in 2 1/2 inch pots and properly treated they will come in at the right time. They may be grown on in a tem-

On page 597 of our issue of January 8, Mr. A. Hemsley gives some interesting particulars of this plant, to which we may now add that some growers in this country have found it useful for general greenhouse purposes, but rather delicate for the ordinary trade of florists. It is certainly a handsome and striking plant, and should find favor among the amateurs and gardeners who have the requisite greenhouse accommodations. The plant is a native of India, and sometimes called *Phymatodes nigrescens*.

**Azalea Fielder's White.**

This white azalea is perhaps one of the very best to grow for cut flowers. The flowers are pure white, and about three and one-half inches across. The plant suffers less by cutting than any other in its class, and produces longer stems. Plants have been cut back and left without a leaf and without an eye over one-sixteenth of an inch long, and they produced flowers on the three hundred and sixty-fifth day, and after two weeks longer were covered with flowers, demonstrating that they can be cut severely and still bloom every season. This variety has not such a compact habit as most others, but it is a free grower, and if, as soon as the plants have done flowering, they are dried a little, the seed vessels picked off and the shoots shortened in, the balls reduced and repotted, they will flower freely every year. Nearly all the cuttings will root.

JOHN COULSON.

**New York.**

**BUSINESS VERY DULL IN BOTH RETAIL AND WHOLESALE CENTERS.—LOW PRICES.—NEWS FROM BERMUDA LILY FIELDS.—A FIGHT WITH THE GREEKS.—PROGRAM FOR CLUB MEETING.—VARIOUS ITEMS OF INTEREST.**

Business is unprecedentedly dull for the season; so say the retailers and that clinches it, for the wholesale dealers have already given their testimony to that effect. War excitement is the generally accepted explanation and if this is the correct theory we have seen the finish of the flower trade for this season, at least. Monday of this week was the banner day for bad business, Mr. John Weir asserts. Mr. Weir does not often speak out so decisively. The middle of the week sees production shortened up about one-half and while the demand has not shown any increase in volume yet results are apparently better than last week, for there is not so much stock among which to divide the total receipts. Violets are practically unsalable; they are disposed of in original packages for best offer, and this is pretty low. Lilies manage to realize two dollars a hundred at 34th street market; some were bought last week for one dollar a hundred. Roses are low all along the line, extra good Beauties bringing twelve cents with difficulty and when sold in bulk bringing considerably less. Lily of the valley is of fine quality, as a rule, but the cut is largely increased and prices are nowhere. Southern lilac is now on deck and is good, bringing cost of freight and a little more.

James Weir, Jr., returned on Tuesday from Bermuda, where he has been on a visit of inspection of the lily fields. As this firm uses about 60,000 bulbs every year the loss of one-third of their stock the past season from disease makes the matter one of much importance to them. Mr. Weir says that the majority of the fields he examined looked decidedly unpromising.

MacDonald & McManus, who are creditors of the insolvent firm of Polykranas & Stravopoulos made a seizure at the establishment lately occupied by that firm one day last week, and the Marshall had a lively rough-and-tumble fight with a dozen or more Greeks before possession was gained.

Jas. Weir & Sons have secured the store on the corner of Fulton street and Hanover place, Brooklyn, which is to be vacated by Peter Mallon on May 1, and will run it as a branch store.

W. E. Britton of the Connecticut Agricultural Experiment Station, will be the

lecturer at the May meeting of the Florists' Club. His subject will be "Experiments with Chemical Fertilizers on Greenhouse Plants."

Clary is getting the crowd to his auction rooms these spring days. A large and varied stock and energetic hammer wielder with the resultant competition are a great combination in the auction business.

Louis Kratz, of 220 Lexington avenue, Jersey City, was brought before the police court on April 16, on a charge of assault and battery, preferred by Mrs. Louis Kratz.

H. A. Siebrecht & Son have just shipped to Mr. Ulrich, at Omaha, a car load of hardy ornamental shrubs and climbers to be used in the decoration of the grounds of the Trans-Mississippi Exposition.

Miss M'Creary, of Orange, N. J., will succeed Charles L. Doran, at 860 Sixth avenue, on May 1.

Edw. Littlejohn, of Chatham, N. J., made an assignment on Thursday, April 21.

**Begonia Notes.**

Those of us who saw the grand displays of begonias at Newport last summer during the convention of the S. A. F. were made aware of the greater possibilities of the semperflorens type of begonias for summer bedding.

If I am not mistaken Vernon was the first of the race to make a name for itself in that direction in this country, and those which have come later may be selections from that variety. I am trying a number of the varieties this year, and it is interesting to watch for the

variations which come in a package of seed. The only way to establish a strain of any of the types with the hope and expectation of keeping them true is to isolate the plants that are intended for seed-saving purposes, and even then with all the care exercised variations may be looked for.

Begonia Erfordia will be largely planted the coming spring for next summer's display. I was very favorably impressed with this variety two or three years ago. The seed was sown too late that season to give the plants a trial for summer bedding, but they made grand plants in 6-inch pots for the fall, and found a ready sale among dealers who sold them for window plants, for which purpose they are admirably adapted. This is said to be the result of a cross between the old reliable Vernon and Schmidt, and the flowers of the two varieties are sympathetically crossed for seed saving purposes every year and offered in many of the seedsmen's catalogues.

The majority of the plants of Erfordia will produce flowers of a beautiful delicate shade of pink, while the remainder, about five per cent perhaps, will bear white flowers. I secured seed of Schmidt and the plants resulting therefrom at this stage of their development show strong variations. I had a pre-conceived idea of what Schmidt was like, having, I believe, seen it many years ago, but while some show a tendency to resemble what I had pictured Schmidt to be, most of them appear to look like semperflorens.

My object was to select the best of the respective types and cross them and save



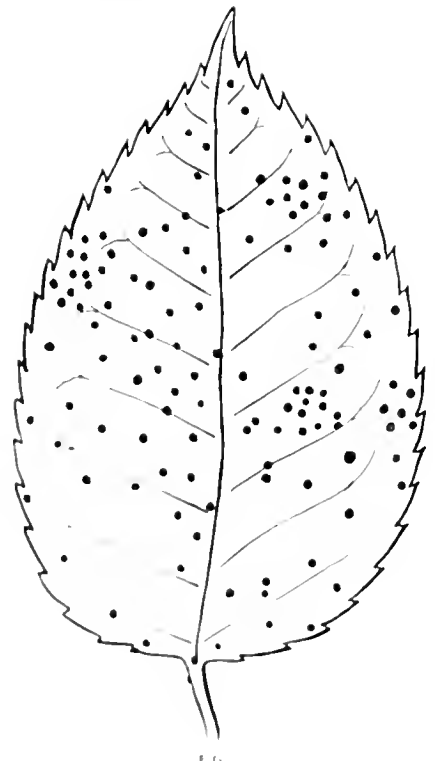
AZALEA FIELDER'S WHITE.

my own seed, and then select the very best varieties and increase them by cuttings. It is best not to allow the young growths to become too long before severing them for the propagating bed, as many of them do not seem to break well from the base of the plant.

Before leaving the subject of the begonia, I have great faith in its future, for bedding purposes as well as for use in conservatories and for home adornment. The tuberous rooted section has not seemed to "catch on" for bedding purposes in this climate so far, and may be we have not studied their requirements so fully as to warrant success as we might and ought to have done. We are, however, promised a new departure in this class; it is called Duke Zeppelin, which will be watched with much interest the coming summer. L. E.

**Black Speck of the Rose.**

A gardener complains to me of his rose leaves being badly disfigured with minute dark specks and asks for the cause and cure for the same. The trouble is due to the indirect and not the intentional action of a fungus, and in this respect is quite unusual and merits a word of consideration. The fungus that is the source of trouble is somewhat closely related to the coarse one that thrives upon bread, and is very damaging to sweet potatoes in the storage bin, causing the soft rot. In short, it is one of the molds and grows upon organic substances and not, as before stated, upon the rose. Figure



1 shows a rose leaflet as disfigured with the specks.

The fungus in question is *Phlobolus crystallinus* Toth, and in this case, grew in large numbers upon the manure used to cover the bed when the roses were growing. As it matures a dark oval ball or sac is produced filled with the spores of the phlobolus, as shown in figure 2. This black sac is supported upon a swollen stalk rising from the surface of the manure and when mature the enlarged por-

tion, filled with liquid, suddenly forces off the spore sac and collapses, throwing the ball of spores into the air, also shown in figure 2. These dark spore sacs are covered with moisture as they are discharged and will adhere to any object which they may strike in their flight.

The writer has examined houses where this fungus has developed extensively upon the manure and counted as many as a hundred specks to the square inch upon the white wood work surrounding the bed. An examination of the perpendicular sash in division walls in greenhouses will show, from the numerous spore specks adhering, that the height to which the dark sacs are thrown is fully ten feet; but there is a rapid falling off in the number upon any given area when the height of two or three feet is reached.

These specks, of course, from what has been written, may be upon any plant that is within range; but they do no further harm than the disfigurement thereby produced. They are more often met with in rose houses, because there the manure is more frequently left upon the surface than with other kinds of plants.

If a remedy is sought it may be found in dispensing with the manure on the surface, stirring it at frequent intervals to prevent the fungi from having time to mature their dark shells containing the "shot" in the form of spores, so to speak, or by using some fungicide as a spray upon the manure that will kill the mold. However, as a rule the bombardment does not last long and no vigorous measures are generally called for in this case.

BYRON D. HALSTED.

**Philadelphia.**

**BIG STOCKS AND LOW PRICES.—NEWS NOTES FROM THE CITY OF BROTHERLY LOVE.—BAKER'S GREAT BOWLING.—POINTERS.**

Roses are now on the market in unlimited quantities. Fine long-stemmed Beauties, three to four feet, are sold every day for \$1 the dozen, and a large department store retails them at 15 cents each. Of course after a purchase there the \$3 to \$5 per dozen asked in the cut flower stores gives the buyer the impression that he is being robbed. Still the regular market channels do not take half the stock coming in, so what else can the poor grower do?

Carnations are also mountain high in quantity but mole-hill low in price. The quality is all right, but the buying public seems to have its heads full of war news, and as a result the finest stock at tempting prices finds but a slow demand.

J. W. Collesh is cutting some nice Jacqs for which he finds a ready sale, as he has the market all to himself.

Sweet peas are plentiful at from 75 cents to \$1.50 per hundred. Violets are practically done, although there are a few stragglers about.

Lilacs from Virginia and Maryland are coming in great quantities. S. S. Pennock received thirty barrels last Tuesday upon which he realized \$3 per barrel. Lilacs will be in flower here in a few days. Mr. Pennock has fitted up a carnation cellar which he has taken special care to have ventilated thoroughly.

At Robert Craig's immense shipping trade is going on, this being the busiest season he has experienced for years. Two of his houses are planted with grafted Kaiserins, which are looking well. For Easter these houses were filled with lilies and hydrangeas, but two or three days after Easter the roses were all planted. It was very quick work. Mr. Craig says that he finds an immense demand for

grafted roses for forcing. All the growers are waking up to the advantages of grafted stock, and everyone who had a supply of these roses has sold out, so that no more are to be had at present. Growers in this neighborhood who planted a few last season for a trial are all after a

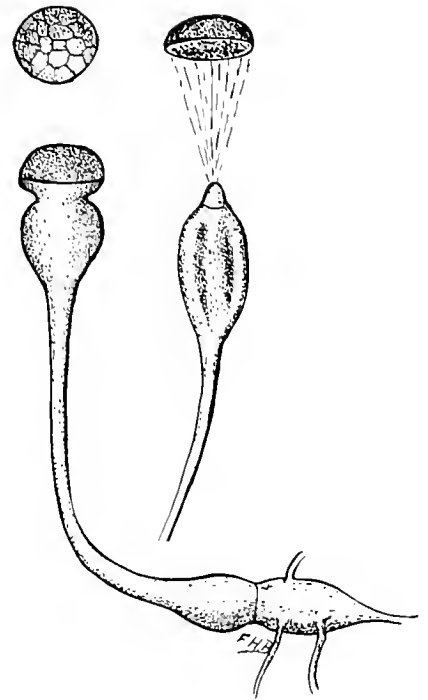


FIG. II.

larger stock, but as a rule find themselves too late. The popularity of the ficus must be noted again. A house at Mr. Craig's is filled with plants selected in lots and marked "sold." All are in 4-inch pots, the demand being so great that they are taken in the small sizes. It is the same with all the growers.

F. Supoit has been sending in some very pretty anemones. They are all colors of the rainbow, and are very attractive and showy flowers. He winters them in a cold frame, planting them between rows of violets, as with this treatment they come in just as the violets go out. They will find greater favor with the public when better known.

Japanese and Bermuda lily bulbs are quoted considerably higher this season than last. One of the dealers says he will guarantee his longiflorums to the extent that he will remit the price of all bulbs that, when grown, are found to be diseased to such a degree as to interfere with their sale.

The public squares have been very gay the past few weeks with their beds of hyacinths and tulips. The bulbs were furnished by H. F. Michell and turned out to be exceptionally good.

Bowling matters are looking up, and it is now proposed to have a night for each class, have all the men there, and from those present select teams who will bowl against each other, the individual scores to count for the medals offered. The Graham medal for the ten highest games each month is likely to be won this month by W. J. Baker, or "Old Two-hundred," as he is now called, as he promises to win with an average of 200 or over.

The Pennock Co., retail florists, of Wilmington, Del., have given up their



local business and gone into wholesaling exclusively.

Visitors in town: Timothy O'Connor and wife, of Providence, R. I.; M. B. Bunker, Boston; Wm. Edgar, Waverly, Mass.; F. G. Berger, Baltimore. K.

#### Boston.

CUT FLOWER BUSINESS IN UNSATISFACTORY CONDITION.—ENTERTAINING LECTURE AT HORTICULTURAL HALL.—NEW CYPRIPEDIUMS.—DAMAGE BY FROST.—F. W. FLETCHER GOES TO WAR.—CARNATION NIVEA IS A WINNER.—AUCTION SALES.—FINE VIOLETS.—BIG OFFER FOR A CARNATION.

The cut flower business is in a most wretched condition. Ever since Easter it has been bad and now seems to be growing rapidly worse. Just as the demand diminishes the supply, with proverbial contrariness, shows a big increase. The country customers who have been good friends to the wholesaler all through the winter are now getting home crops and can get along without the Boston shipments, which adds to the local inactivity. Roses are coming in quantities that are unmanageable and even carnations are sluggish. Bulbous stock of all kinds is unsalable. Violets run very poor except in the case of a limited quantity from frames, but even the latter are disposed of with difficulty. Lilies continue to be received in excess of the demand. Smilax is in short supply and appears to be about the only item that is able to maintain its price.

A very entertaining address, under the auspices of the Massachusetts Horticultural Society and the Appalachian Mountain Club, was given at Horticultural Hall on Tuesday evening, April 21, by Cornelius Van Brunt. The subject was "The wild flowers of the Canadian Rockies amid their native surroundings," and many stereopticon views were presented to illustrate the lecture. Many of the views were beautifully colored by Mrs. Van Brunt who accompanied her husband on a trip over the Canadian Pacific Railroad from Montreal to Vancouver.

The usual Saturday display was made at Horticultural Hall on April 23. A well bloomed plant of white gemista from Japan was shown by James Comley. J. E. Rothwell was awarded a certificate of merit for *Cypripedium Eleanor Rothwell*, a cross between *Leeanum* and *Lowii* made by the late Wm. Grey and now flowered and shown for the first time. Mr. Rothwell also received honorable mention for *Cypripedium leucochilum* a pretty natural cross between *bellatulum* and *concolor*.

For the third consecutive season the wisterias in this vicinity are nearly barren of blossoms. The mischief was undoubtedly done in the severe freeze experienced late in March. The flowers on *Mahonia aquifolia* are also nipped, but magnolias, forsythias and other early blooming shrubs that suffered last year are in fine condition and make a great show.

F. W. Fletcher has resigned his position as editor of the *New England Florist* and has gone to the front as a war correspondent for the *Boston Herald*. Thos. H. Meade succeeds him in the management of the paper.

Carnation Nivea is fulfilling the predictions made for it as the best standard white carnation for this market. As received from Cook by Welch Bros. it has every good quality of a market carnation.

N. F. McCarthy's auction sales have begun and will continue regularly every

Tuesday, Thursday and Saturday until June 22. Prices at the initial sales on dormant stock have been very good.

Geo. A. Sutherland is receiving some very handsome frame violets of the Campbell variety.

Peter Fisher has refused an offer of \$4,000 for the stock of carnation Mrs. T. W. Lawson.

Visiting Boston, Winfried Rolker, New York.

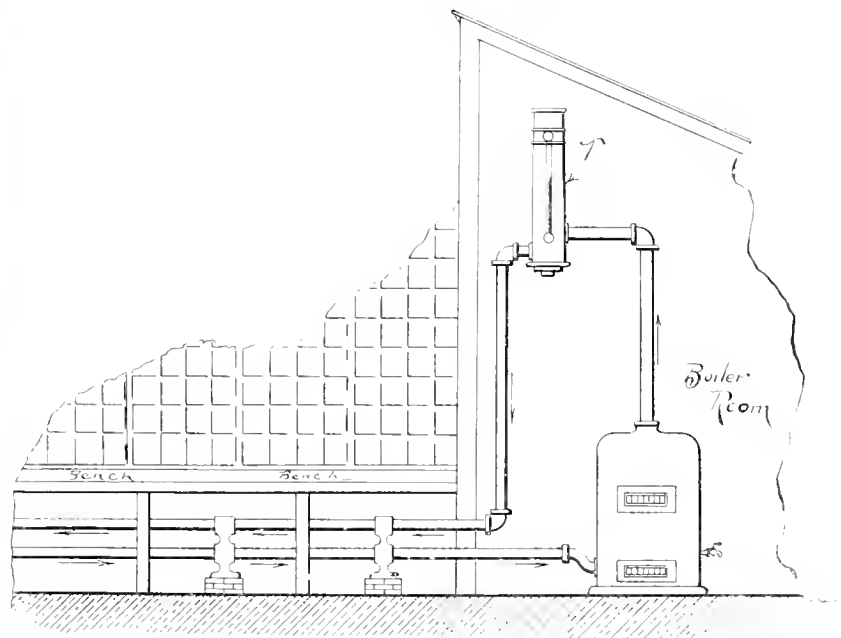
#### Steam and Hot Water Heating.

##### PART IV. HOT WATER HEATING WITHOUT BOILER PIT.

It is a general supposition among florists, and also many practical hot water fitters, that to have a successful hot water heating plant for greenhouse work the boiler must be located in a pit or cellar several feet below the heating coils. Such, however, is not the case, but at the same

point as the building will permit of the delivery of this water into an expansion tank, as shown at T. in the illustration. This flow pipe from the top of the boiler to the expansion tank should be covered with a good non-conducting pipe covering in order that no heat may escape until it enters the expansion tank. The water is then carried from the tank at a point lower than the inlet as shown, connecting with the upper part of the bench coil and returning to bottom of the boiler as indicated by the direction of the arrows.

The vertical line of supply pipe from the bottom of the expansion tank should not be covered, but allowed to act as heating surface, and in some places this pipe may be situated partly in the greenhouse, passing through the boiler room partition at a point just below the greenhouse roof. When expansion tanks are located at a high elevation, as shown in the accompanying illustration, it will be



HEATING WITHOUT A BOILER PIT.

time a more rapid circulation of water through the heating system will be found in plants where the boilers are located below the level of the greenhouse floor. There are many locations in which it is not practicable to build a boiler pit on account of low, wet ground. It is also a considerable item of expense to build a good boiler pit even on dry ground, especially if the site is a rocky one. Therefore under such circumstances the hot water boiler may be located, as shown in the accompanying illustration, on a level with the greenhouse floor.

A partition, it will be noticed, divides the boiler shed and the greenhouse proper, so that coal-gas, dust and smoke which may escape from the fire will be excluded from the latter. As gravitation alone is the motive power for the circulation of water through hot water plants of this kind, the one essential thing necessary will be to carry the pipes in such a manner that there will be a difference in temperature between the rising and falling columns of water. The best plan to obtain the greatest difference of temperature between these columns of water and secure the greatest motive power for circulation, is to carry all the hot water from the top of the boiler to as high a

point convenient to have them provided with glass water gauges, so that the height of water in the tank can be seen at a glance. Again, to fill heating plants of this kind a hose may be attached to the draw-off cock at the bottom of the boiler, when the water system is in or connected with the building. In work of this kind where four-inch cast iron pipes are used with hub joints, cast iron expansion tanks will be necessary; and as they are quite heavy, it will be necessary to provide a substantial support for the tank.

It is also an important matter to have solid foundations for the boiler and all the pillars on which the pipes rest, because they are comparatively heavy without water, and when filled with water, as they are when in operation, the combined weight will be considerable. Two good reasons for having solid supports for hot water greenhouse heating plants are: First, because cast iron pipe of the size used on such work has very little flexibility to it, and will therefore break before it bends when improperly supported; and secondly, as it is also important to have hot water coils properly lined and pitched, for the purpose of getting a good and positive circulation of the water; a sag in the

pipes caused by poor foundation might often greatly retard the circulation and affect the efficiency and durability of the apparatus in requiring an increase of attention and fuel. JAMES J. LAWLER.

Ornamental Bedding.

PART VI.

Next we will turn our attention to ellipses and how to lay them out. In Fig. 20 a-b is called the major axis, d-e

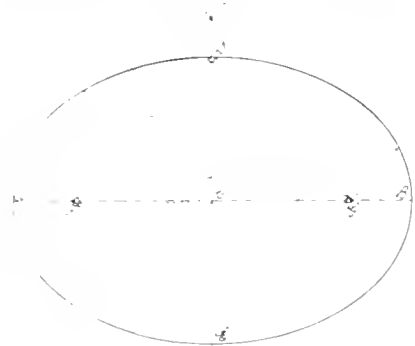


Fig. 20.

the minor axis, c is the center, f and g the foci, the distance from the center to either focus is called the eccentricity; any straight line through the center with vertices in the ellipse is a diameter. The relations of the foci to the ellipse are that the sum of the two straight lines drawn from any point of the ellipse to the foci is always the same. To lay out an ellipse for instance nine feet (major axis) by six and one-half feet (minor axis) choose the place for line a-b and put pegs at these two points nine feet apart. Proceed to find d and e, as explained for diamonds, c-d and c-e, each three feet three inches, put pegs at d and e. From d intersect a-b with radius c-a, in this case four and one-half feet, which gives the foci f and g. Tie a piece of twine around

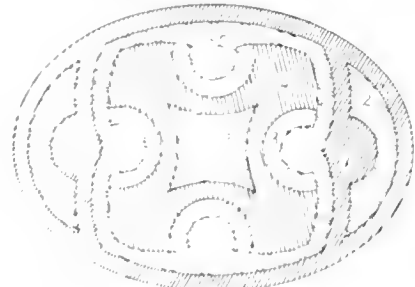


Fig. 21.

Fig. 21. Put peg f and with it, keeping the twine stretched, draw the ellipse. The dotted lines indicate some of the different positions of the twine and pegs during this process. Put peg d in place again. It, as well as pegs a, b, and e, will come handy in laying out the design. Fig. 23 shows an easy design for an ellipse of 20x10 feet.

Fig. 23.

- 1. Alternanthera paronychioides. 2. Alternanthera amerciana. 3. Santolina incana. 4. Alternanthera spatulata.

Fig. 24. 20x10 feet.

- 1. Alternanthera paronychioides. 2. Alternanthera amerciana. 3. Alternanthera paronychioides major. 4. Santolina incana. 5. Erythra rosea. 6. Achyranthus Lindleyi.

Fig. 25. 20x10 feet.

- 1. Erythra rosea malabarica. 2. Alternanthera amerciana spectabilis. 3. Alter-

- nanthera aurea nana; 4. Alternanthera spatulata; 5. Santolina incana

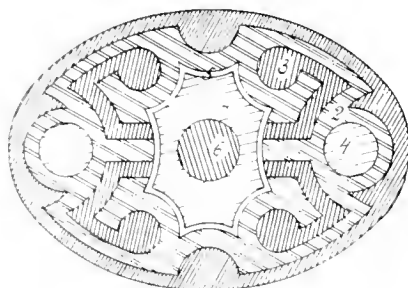


Fig. 22.

These two designs are of a more complicated nature. The lanceolate outline of Fig. 24 consists of two curves with equal radii; the centers are situated in the perpendicular of the middle, same construction as when laying out the diamond and the ellipse, but more about this later.

Fig. 24. 20x10 feet.

- 1. Alternanthera paronychioides; 2. Pilea nana; 3. Alternanthera amerciana spectabilis; 4. Alternanthera aurea nana; 5. Santolina incana.

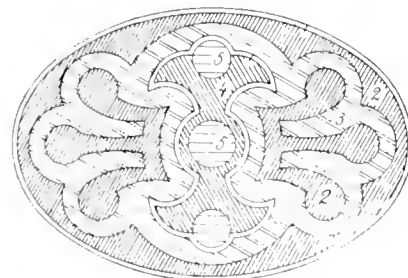


Fig. 23.

The Maltese cross is a design commonly asked for; it is easily laid out and can be made to look very presentable by tasteful planting.

Fig. 25.

- 1. Alternanthera paronychioides major; 2. Santolina incana; 3. Coleus Golden Belder; 5. Coleus Verschaffeltii.

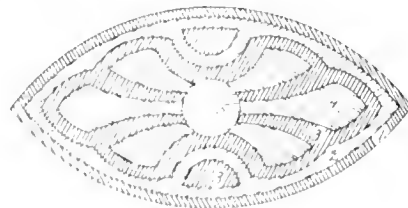


Fig. 24.

This represents a ten-foot cross; first draw a ten-foot square, then from the cen-



Fig. 25.

ter, where the diagonals cross each other, draw the circle, three feet three inches radius; from the corners of square measure along each side one foot two inches and set pegs; from the points where the diagonals cross the circle measure to each side six inches and set pegs. Now draw twine around the pegs for each wing; draw the lines and you have the outline of the cross. For the planting of borders one and three, I have allowed six inches. Do not make the mistake to plant different colors in the different wings. H. HANSEN.

Chicago.

SHIPPING TRADE IS GOOD.—STOCKS AND PRICES.—CHANGES.—OFF TO THE WAR.—LOCAL JOTTINGS.

Shipping trade is fairly good, but the class of stock that is now required on out-of-town orders is entirely different from that which was wanted a year or two ago. Then a large portion of the orders for shipping, especially to the smaller places, were for the cheaper grades of flowers while now the best is almost invariably called for.

Large stocks of all leading varieties of flowers are now coming in and nearly everything is sold out every day. The stock of lilies, of which there has been somewhat of a glut since Easter, is much reduced, though there is still plenty for all demands at from \$5 to \$8 per 100. Good lily of the valley is quite scarce and brings better prices than it has since Christmas, selling readily at \$5 per 100.

The mortgage on Julius Martini's place, 459 Division street, has been foreclosed and the property has been leased to Jos. L. Raske. It is reported that Martini has left the city.

John Zeek, who has had charge of Reinberg Bros' store for sometime, has resigned his position and will be with S. B. Winters after May 1. Archie Spence, who has been with Reinberg Bros. for several years, now has charge of the store.

Wietor Bros., successors to the Rogers Park Floral Co., are building five greenhouses 30x120 and sixteen houses 20x120, all for roses. They are also putting up an icehouse and packing room and when these improvements are completed their facilities will equal the best in the city.

At the regular session of the Florists' Club on April 28, it was decided to change the nights of meeting from the second and fourth Thursdays to the first and third Friday evenings of each month. This will bring the next meeting night upon May 6, when the subject for discussion will be, "Palms, Ferns and Decorations," a topic not likely to be exhausted at one sitting. At this week's session Charles I. Strombach, head gardener at Lincoln Park, read an excellent paper on "Bedding Plants," an abstract of which appears elsewhere in this issue.

Thomas P. McConnick, lately with A. G. Price & Co., has gone to the war with the Seventh Regiment, I. N. G.

Carl Hammer, with Bassett & Washburn, is a member of the First Regiment, I. N. G., and has gone to Springfield with the command.

Mrs. L. Cation, formerly of Peoria, has opened a store at 3210 1/2 Cottage Grove avenue.

Among this week's visitors were Samuel Murray and Arthur Newell, of Kansas City. Mr. Newell went to see the picture gallery, and took a trip down the slide.

Bassett & Washburn have leased the Mitchell rose house at Hinsdale, and will remodel it for carnations.

## THE AMERICAN FLORIST

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Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

We have received some excellent samples of carnation blooms from Mrs. L. C. Buehler, Oconomowoc, Wis.

The National Florists' Board of Trade has moved into larger quarters at the old address, 271 Broadway, New York. Increased business, calling for additional room, is the cause of the change. The telephone number is now 1955.

PRINCE THEODORE GALITZINE, a new orange yellow tea rose, will be sent out this spring by Messrs. Ketten Bros., of Luxemburg (Grand Dutchy). It is described as being very large and full; long buds, stiff stems and very fragrant.

THE NINTH annual report of the Missouri Botanical Garden comes to hand in its familiar attractive form. The volume is richly illustrated, and in addition to the usual summary of the year's proceedings, contains many valuable papers and notes of a scientific character.

THE Lord & Burnham Co., of Irvington-on-Hudson, N. Y., will move their New York office on May 1 to St. James Building, Broadway and 26th street. Their new city quarters give them increased office room besides show rooms where they will shortly exhibit samples of their greenhouse heaters, ventilating machinery and other manufactures.

THE CANNA LEAF ROLLER is a source of considerable annoyance to canna growers in some parts of Florida. In bulletin No. 45 of the Florida Experiment Station Mr. A. L. Quintance gives a full account of the insect and its life history. The only remedy suggested is picking and burning the infested leaves and trash from the buds, as the insects pass the winter in them.

### Cut Flower Price Lists Received.

St. Louis Cut Flower Co., St. Louis; H. L. Sunderbruch Co., Cincinnati; Holton & Hunkel Co., Milwaukee; W. A. McFadden, Cincinnati; E. H. Hunt, Chicago; Bassett & Washburn, Chicago.

### Greenhouse Building.

Flushing, N. Y.—A. L. Thorne, one rose house, 54x150.

Miami, Fla.—Royal Palm Grounds, one greenhouse, 40x100.

West Derry, N. H.—Mrs. L. F. Cullen, one greenhouse.

Joliet, Ill.—Illinois State Penitentiary, five commercial houses, 12,000 square feet of glass, to be completed June 1. Jos. Labo, superintendent.

### "Greenhouse Management."

This is a book of some 400 pages by Prof. L. R. Taft, of the Michigan Agricultural College, and published by the Orange Judd Co., New York. The author is well known to the trade not only by his

former valuable work on greenhouse building, but also by the numerous excellent papers from his pen on trade subjects, especially greenhouse heating, which have appeared in the last few years. The book covers the ground indicated by its title very fully, and is profusely illustrated.

The forcing of roses, carnations, chrysanthemums, violets and bulbs is very fully treated, a special chapter being given to each. We note no class of greenhouse plants commercially grown in this country which is not given attention in proportion to its relative importance. Very full instructions are also given on vegetable forcing, mushroom growing, the forcing of fruits, the management of house plants, propagation, insects and insecticides, plant diseases and remedies, soils, manures and fuel.

It should be in the hands of every beginner and even the wise ones, who are not too old to learn, while there is of course much of an elementary nature, will find in it many new and valuable hints.

It is sold by the author and the publishers, price \$1.50 postpaid.

### The Outlook for Cannas.

Taking into consideration the large sales of dry bulbs that have been made during this season, it would seem as if cannas would be used for bedding purposes more largely this season than ever before. There certainly is no florists' plant that affords so certain a display of brilliant color as the canna, no plant with which the amateur is so sure to succeed.

The dormant roots are now grown and sold at a price that brings them within the reach of the masses and a consequent increase in consumption is the logical result. Introductions of new and high priced novelties may not meet with as large sales as heretofore; but as soon as meritorious introductions become known and their price falls to the moderate level, they will be absorbed with the mass.

To sum up the situation: The canna is one of the best and most satisfactory bedding plants the American public has at its command. The people are learning that fact; they are buying and will continue to buy cannas until some superior plant is introduced to replace it. Good, serviceable varieties offered at reasonable prices will sell. C. W. WARD.

### Greenhouse Heating.

A recent farmers' bulletin of the Department of Agriculture (No. 69) contains a popular summary of experiments on greenhouse heating. It is an unfortunate thing that the accurate and scientifically conducted experiments have necessarily dealt with small houses only. The results are almost uniformly in favor of hot water over steam, of hot water under pressure over the open system and of small pipe hot water systems over 4-inch cast iron pipe systems. Where the piping is poorly arranged, and in small houses where there exist many turns in the pipe and a very small fall, steam has given equally good or better results than the other systems. There are certain indications from some of the experiments that in extensive plants the difference between the results of the two systems may be less great, but this is only inference and not a demonstrated fact.

It is certainly demonstrated, however, that aside from the amount of coal consumed steam is in every way as efficient for the ordinary commercial place as the

other system, while being cheaper to install and the pipes much quicker heated or cooled. To those so located that manure is a scarce and expensive article, the adaptability of steam to hotbed and frame heating is quite an item in its favor.

The only question to be yet definitely decided, and the one on which the decision as to which to use rests, is as to the amount of coal consumed by each to perform the same service in a day's scale. It is to be hoped that this may be investigated at an early day. We have to look to the experiment stations, however, for work of this kind, and there are at present probably none of them having plants of sufficient extent to enable them to test the matter.

### Omaha.

THE RETURN OF PROSPERITY TO THE NEBRASKA METROPOLIS.—THE WEEK'S RECORD.—EXPOSITION VISITORS.

Lenten season with our florists was very much unlike the old-time Lenten period. The business, during this season, has been on the increase for several years and 1898 is a mascot for us. Things are coming our way, we feel, if we did not get the meeting of the officers of the S. A. F., which is customarily held in the convention city during the early part of the year.

Prices on cut flowers did not range quite so high as in former years, but the volume of business done made an increase in the amount of sales. Carnations and bulbous stock, aside from lilies, were mostly sought for, ranging in price from 50 to 75 cents and \$1 per dozen. Roses brought \$1 to \$1.50 with some of the choice a trifle higher. American Beauties were very scarce and brought their own price according to quality. There was a very brisk demand for violets and the supply was very short the latter part of the week. Lilies, of course, formed the bulk of the plant sales, although the Dutch hyacinth also sold freely. The lilies, those that were in bloom, were all sold at a good price but at the same time the plants were mostly heavily budded. Azaleas were also in great demand and there was little "parleying" on good plants. There was very little demand for palms, ferns and hydrangeas.

Geo. Marshall, president, and Peter Younger, secretary, of the State Horticultural Society, were in the city the early part of the week to look over the exposition grounds. G. R. H.

### Scranton, Pa.

A marked change for the better is reported on all sides and it is gratifying to note that the florists, among others, are inclined to take an optimistic view as regards the pending crisis, and are going ahead as if "peace on earth, good will to men," was the order of the day.

Messrs. G. R. Clark & Co., have remodeled their store and have everything in fine shape.

W. H. Davis contemplates building two additional three-quarter span houses, one 16x100 for palms, the other 24x100 for roses. In addition to cut flowers, Mr. Davis grows a general stock of bedding plants.

John Palmer has removed his store to 407 Spruce street, the firm of Palmer & McDonald having recently dissolved.

Morel Brothers may make extensive additions to their plant during the coming summer. They report trade encouraging. HOMO.

St. Louis.

BUSINESS SHOWS AN UPWARD TENDENCY WITH MOST STOCKS VERY LARGE.—FERNS ARE SHORT.—PLANTING OUT TIME.—NOTES.

A slight improvement in trade has been noticed during the last week, although nothing remarkable has developed. Prices still rule low, especially on stock in quantities or in thousand lots. Roses have improved more than carnations, there being an immense supply of the latter to make up for the shortage before Easter. Five dollars a thousand for the poorer grades, and a cent a piece for good flowers are asked, but the prices they bring is another story. Cooler weather, necessitating firing, has improved rose stock, and also shortened the supply. Harrisii can be had in immense quantities at your own price, somebody evidently having failed to make Easter connections. Ferns are very scarce and several parties report their inability to purchase any in town.

Market trade still continues slow, the excitement over war bulletins, and the cooler weather having a depressing effect on business. Orders for planting out are coming in quite freely, and several weeks of warm weather would put things in full swing. The parks have commenced planting out lilies and the hardier class of plants. Bulbous plants have about passed their zenith for the present season.

The fakirs are still with us, one of them having turned over several large lots of carnations the past week and, judging from the purchasing price, must have made a good thing out of them.

Mrs. Martin, who has been conducting the flower stand in Alexander's drug store, has failed. This stand was conducted, up to four months ago, by Wm. Lingenbrink, under the name of Elbeards. He disposed of it to go to Klondike.

R. F. T.

Cleveland.

WAR PRICES PREVAIL IN THE OHIO CITY, BUT IT IS A LOCAL CUT RATE CONTEST WHICH HAS DEMORALIZED THAT MARKET.

The usual spring glut, which, owing to various circumstances, had been stayed on thus far this season, arrived the latter part of last week. Business, up to that time, had, on the whole, been fairly good and, although prices in some lines were often somewhat shaky, there had been naught, except in one or two isolated and rather unimportant instances, no disposition to unload stock at prices far below cost. Things took a mighty tumble, however, at the above mentioned time, and pretty nearly everyone took a hand in the game, including one dry goods emporium, where some very good long-stemmed Beauties were sold for the magnificent sum of ten cents each. Brides and Bridesmaids, at this same establishment, were generously offered to the public at the rate of two or five cents. Not all the stock of Beauties offered in this case were long stemmed. They ranged from short up to two and three feet, but even at that the grower must have been abundantly rewarded for his labors. The ten to five rate was discounted in more than one florist's shop, where Brides and Bridesmaids were sold, in very good grades, at 25 cents a dozen. Other florists who were not so long on roses contributed to the general cheerfulness by selling carnations at 15 or 20 cents a dozen, daffodils at 25 cents, and other stocks, which they claimed to be well supplied with, at about any old

price." It is announced by one of the festive florists that other further exploits along this line of commercial activity will this week result in the inauguration by his firm of a grand, unprecedented feast of bargains. This banquet may not materialize, as it is contingent upon the erranditudes of others, but should it come to pass we shall enjoy a spectacle unique in the present rough and tumble contest for the bargain record.

Aside from the merry price war there is little to report. The weather is now taking on a more spring-like aspect. Planting, however, even for the earliest stock, cannot safely begin for nearly a week, so that nearly everyone is resting on his oars at present.

Pittsburg.

THE FLORISTS' AND GARDENERS' CLUB PLAN TO GIVE A BIG FLOWER SHOW.—PLANTS, PRICES AND WEATHER.

After Easter trade is fairly good, the fact that our country is at war not having affected the local florists' business as yet. Stock is plentiful, of good quality and prices are well sustained. The weather has been much too cold recently for the bedding plant growers, but as soon as it becomes warmer the indications point to an excellent trade in that line. The quality of the plants so far offered shows that good stock will be very general this season.

The Pittsburg and Allegheny Florists' and Gardeners' Club met on the evening of April 25, and hereafter the fourth Monday of each month will be the regular meeting night. This change is owing to the club's inability to secure the hall on the night previously selected. This month's meeting was well attended and much more than ordinary interest was manifested, the question how proving a source of inspiration. After a lengthy discussion as to the advisability of giving a flower show next fall the decision was left until the next meeting. Those present were very decidedly in favor of giving a show, and all the growers said they would be very willing to participate. In all probability the exhibition will be given under the auspices of some worthy charity. A very fine vase of the Walter Harvey carnation grown by John Muehlich, of Sharon, Pa., was shown at the meeting by Mr. John Ludwig, the club extending a vote of thanks both to the grower and exhibitor for the fine display. The club seems to have taken on a new spirit and a very successful year is predicted.

Mr. Zyp, of Fitgeest, Haarlem, Holland, was with us last week, and reports trade as good.

REGIA.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Third adv. not admitted under this head.

Every paid subscriber to THE AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By a competent young man; 5 years' experience, steady and sober. Best of references. Address: G. A. L., care Am. Florist.

SITUATION WANTED—By young man in second S. garden or to take care of small private place. Good references. Address: J. O'NEALS, 101 West 10th & 11th Ave., Brooklyn, N. Y.

SITUATION WANTED—In commercial place by single man, age 30, grower of roses, carnations, mums, violets, lilies and general stock. References. FREDERICK HILL, 26 W. 25th St., Oswego, N. Y.

SITUATION WANTED—By young man age 21; 3 years' experience in roses and carnations, can furnish the best of references. Philadelphia or vicinity preferred. J. W., Box 64, Newton, Pa.

SITUATION WANTED—In a rose growing establishment or general greenhouse work as assistant. References and particulars—Western States preferred. Address: A. P. A., care American Florist.

SITUATION WANTED—By a first class grower of roses, mums, carnations, violets, tomatoes, cucumbers and other plants. Best references; married, no children. F. F. RENTZ, 7 Biltmoreville, Lancaster City, Pa.

SITUATION WANTED

by florist and gardener; private or commercial place; near Boston preferred. Ten years' thorough experience in growing roses, carnations, violets and general florists' stock. Four years steady at present place as foreman; good maker-up and seller. German, single, 25 years old; 7 years in America. Honest, sober and steady. Best of references. Good wages expected. Ready May 2d. Address: H. S., care Am. Florist.

WANTED—First-class grower to take charge of a section of rosehouses. Address: WIETOR BROS., 51 Wabash Ave., Chicago.

WANTED AT ONCE—An all-round good florist, single; German preferred. BAYWOOD FLORAL CO., Bryant St. E. E., Pittsburg, Pa.

WANTED AT ONCE—Good florist for general greenhouse work. Wages \$20 per month with board, and locum when satisfactory. HILLSDALE FLORAL PARK, Hillsdale, Mich.

WANTED—Photographs of gardens and plans; also specimen plants hardy and otherwise. Send price and particulars to: BURTON, care W. J. Stewart, 67 Bromfield St., Boston.

WANTED—An assistant in greenhouse capable of taking charge when necessary; must understand roses, carnations and mums; married man; wages \$45 per month; give references and nationality. Address: K., care American Florist.

WANTED AT ONCE—Man for general garden, especially understanding care of lawns, shrubbery and putting out bedding plants. Young man preferred. E. L. B., P. O. Box 101, Northern Harbor, Me.

WANTED—A good rose grower, as working foreman, one who can take charge of a commercial place. To a reliable, steady man, permanent position. Send copy of references, wages expected. Married man preferred. FLORIST, P. O. Box 230, Madison, N. J.

FOR RENT—For greenhouse purposes, 32,700 square feet on Michigan Ave. Long lease and low rental. Room 322, 184 La Salle St., Chicago.

FOR SALE—Greenhouses on principal street to the city. For particulars apply to: J. H. REBSTOCK, 584 Main St., Buffalo, N. Y.

FOR RENT—To retail florist, a large show window at 261 Clark St.; 12 feet frontage, 4 feet deep. Good location in hotel building. For particulars, etc., call and see.

FOR SALE—Florist's single covered wagon; height about 5 feet, width about 4 feet, length about 7 1/2 feet; built to order, costing \$50. Used, but 2 years. Will be sold cheap for cash. VAUGHAN'S SEED STORE, Box 688, Chicago.

FOR SALE—Five greenhouses, all in first-class order, well stocked; a brick house and barn; a lovely home and doing good business; must sell at once on account of poor health; a bargain; 3 1/2 acres of land. MRS. H. C. BUEHLER, Oconomowoc, Wis.

FOR SALE—The greenhouse establishment of E. Schiller & Kuske formerly Schiller & Matlander, is offered for sale at a great sacrifice; \$6000 will buy 2 1/2 acres of valuable ground, 23 greenhouses, comprising 55,000 square feet of glass; wells, 2 nice dwelling houses, sheds, etc. located in the village of Niles Center, about 12 miles from the heart of Chicago; 1 1/2 miles to depot. Terms, \$500 cash, balance on time; investigate. Address correspondence to Pochlmann Bros., Morton Grove, Cook Co., Ill., or Hermann Schiller, 820 W. Madison St., Chicago.

FOR SALE.

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write: A. LEDIGER, Wadswa, Wis.

FOR SALE.

Three well stocked greenhouses 3 years old, living rooms, horse and wagon. Will be sold cheap if taken at once; \$1000 for first payment, balance on time. Sickness cause of selling. A. ANTHE, Milwaukee & Warren Aves., Chicago, or inquire 286 North Clark St.

FOR SALE OR RENT VERY CHEAP.

I offer for sale or rent my undivided half interest of the real estate of the greenhouse property formerly known as Schiller & Matlander situated in the village of Niles Center, about 12 miles from business center of Chicago and 1 1/2 miles from Morton Grove, Ill. The property consists of 23 greenhouses, 2 dwelling houses, barns, wells and necessary sheds on 2 1/2 acres of land, by statute. Price for undivided half, \$1,500; terms \$1,000 cash, balance payable in seven yearly installments, secured by mortgage notes bearing 6 per cent interest, or will rent a lease to some responsible party for a term of years at an annual rental of \$500, giving option to lease to buy my half for above stated price, provided that said lessee will make repairs the first year to the extent of \$1000. Will acquire deed to property May 18. Address:

MRS. B. KUSKE, Care Pochlmann Bros., Morton Grove, Cook Co., Ill.

# CUT FLOWER EXCHANGE

404-412 East 34th Street,

Near the Ferry ...New York.

THE ANNUAL MEETING of the Stockholders of the Cut Flower Exchange will be held at the above address on Saturday, May 7th, 1898, at 9 o'clock A. M. Five Directors will be elected and other important business transacted at this meeting.

J. DONALDSON, Sec'y.

## Going, Going, Gone!

and it's your own fault if you don't get the bargains. Auction Sales of Plants every Tue-day, Thursday and Saturday at 9 A. M. at.....

## MCCARTHY & CO.'S

84 Hawley Street, BOSTON, MASS.

If you want to buy, send for Catalogues. ♣  
If you want to sell, write for terms. ♣♣

### IT PAYS!

No. 60. **THIS COUPON**

if presented on any Tuesday or Friday during the spring season will entitle THE BEARER to a good comfortable seat at

## CLEARY'S

where he can purchase at his own figures anything and everything in plants, roots, trees and shrubs.....

Sales at 60 Vesey Street, NEW YORK, 11 A. M. EVERY TUESDAY AND FRIDAY.

## N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry. Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

## HOLTON & HUNKEL CO.

SUCCESSORS TO

The Wisconsin Flower Exchange.

Fresh Cut Flowers, Florists' Supplies  
Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 574

457 Milwaukee St., MILWAUKEE.

## Asparagus Plumosus Nanus.

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

## Successful Growers are Wanted

To know that they can dispose of all their surplus stock by advertising in the American Florist. TRY IT NOW!

## Wholesale Flower Markets

CINCINNATI, April 28.

Roses, Beauties, select	15 00@25 00
" Brides	3 00@ 4 00
" Bridesmaids	3 00@ 4 00
" Meteors	4 00@ 5 00
" Perles	3 00@ 4 00
Carnations fancy	1 00@ 1 50
Marguerites	25@ 35
Lily of the valley	3 00
Harrish	10 00@12 50
Callas	8 00@10 00
Smilax	12 50
Adiantum	1 00
Asparagus	50 00

ST. LOUIS, April 28

Roses, Beauties	2 00@33 00
" Meteors	1 00@ 4 00
" Brides, Bridesmaids	1 00@ 4 00
" Perles	1 00@ 4 00
" Kaiserin	1 00@ 4 00
Carnations	1 00@ 3 00
Violets, California	35
Lily of the valley	2 00@ 3 00
Harrish	6 00@10 00
Callas	5 00@ 6 00
Smilax	15 00@20 00

MILWAUKEE, April 28

Roses, Beauties	10 00@20 00
" Brides, Bridesmaids	3 00@ 5 00
" Perle	3 00@ 4 00
" Meteors	3 00@ 5 00
Carnations	1 00@ 2 00
Sweet peas	75@ 1 00
Lily of the valley	3 00
Marguerites, white	40@ 50
" yellow	60@ 75
Callas, Harrish	8 00
Smilax	15 00
Adiantum	75@ 1 00

BUFFALO, April 28.

Roses, Beauties	10 00@40 00
" Brides, Bridesmaids, Meteors	4 00@ 8 00
" Perles	3 00@ 5 00
" Niphetos	3 00@ 5 00
" Kaiserin	4 00@ 8 00
Carnations extra	2 00@ 3 00
" ordinary	1 00@ 2 00
Lily of the valley	3 00@ 4 00
Violets	75@ 1 25
Hyacinths	3 00
Harrish	8 00@10 00
Callas	7 00@10 00
Tallies	2 00@ 3 00
Dafodils	2 00@ 3 00
Pauses	40@ 50
Smilax	15 00
Adiantum	1 00@ 1 25
Asparagus	50 00@75 00

## Flowers And Business

21 cents enclosed in stamps will bring you samples that will interest you.....

DAN'L B. LONG, Publisher,  
BUFFALO.

COMPLETE LINE OF SUPPLIES

WIRE WORK

WE MAKE IT

IMPORTERS OF BULBS

PHONE 1273 BOX 75

ALWAYS ON HAND FINE STOCK OF CUT FLOWERS

ELLIS & POLLYWORTH MILWAUKEE WIS.

It will be better for everybody if you mention the American Florist when writing advertisers on this page.

## C. A. KUEHN, Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

## MOUND CITY CUT FLOWER CO.

Wholesale Florists.

CONSIGNMENTS SOLICITED  
Special attention given to shipping orders  
1322 Pine St., ST. LOUIS, MO.

## C. W. WORS

2740 Olive Street, ST. LOUIS, MO.

## FLOWERS at WHOLESALE....

....ROSES, and a full line

Headquarters for the South West.....

When writing mention American Florist

## ST. LOUIS CUT FLOWER CO.

Wholesale Florists

## E. H. MICHEL

1620 Olive St. ST. LOUIS, MO.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

## WM. F. KASTING

WHOLESALE COMMISSION FLORIST...  
495 Washington St., Buffalo, N. Y.  
Also Dealer in Florists' Supplies and Wire Designs

W. A. MCFADDEN.

## "Rosebank"

NEAVE BUILDING, CINCINNATI.

Producers and Shippers of every description of High Class Floral Supplies.

GOOD STRONG AMERICAN BEAUTY AND CYCLAMEN PLANTS

2-in. Pots Ready for Delivery.

H-L-SUNDERBRUCH CO. WHOLESALE COMMISSION FLORISTS

4th and WALNUT STS. CINCINNATI, O.

CONSIGNMENTS SOLICITED  
SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
 WHOLESALE  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**Spinch FLORIST.**  
 WHOLESALE  
 19-21  
 E. RANDOLPH ST.  
 CHICAGO

**KENNICOTT BROS. CO.**  
 WHOLESALE CUT FLOWERS  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING,**  
 WHOLESALE  
**COMMISSION FLORIST,**  
 51 WABASH AVENUE,  
 Consignments Solicited. CHICAGO.  
 Prompt attention to shipping orders.

**A. G. PRINCE & CO.**  
 Wholesale Cut Flowers  
 AND FLORISTS' SUPPLIES.  
 Agents for the Hinsdale Rose Co. Special attention  
 paid to shipping orders.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

Mention the AMERICAN FLORIST when  
 corresponding with an advertiser.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us.  
**WIRE DESIGNS: A Full Line. Write us for  
 our Illustrated Catalogue.**

**Wholesale Flower Markets**

CHICAGO, April 29.

Roses, Beauties	per doz. 1.50@3.00
" Brides	2.00@ 4.00
" Meteor, Bridesmaids, Kaiserin	2.00@ 3.00
" Gontlers	2.00@ 3.00
" La France, Testout	3.00@ 5.00
Carnations, common	.50@ 1.50
" fancy	2.00@ 5.00
Violets	.46@ .50
Narcissus Poeticus	.46@ .50
Harrish, Callae	4.00@ 8.00
Lily of the valley	4.00@ 5.00
Tulips	1.00@ 1.00
Sweet pens	.50@ 1.00
Hyacinths	2.00@ 4.00
Adiantum	.50@ 1.00
Snulax	10.00@ 15.00
Asparagus	40.00@ 75.00
Pansies	.50

**Bassett & Washburn's  
 ROSE PLANTS**

We have an extra selected stock of the following  
 Rose Plants. Will guarantee them to  
 be as fine as any grown.

American Beauty	2 1/2 in. pot.	\$5.00	Per 1000 \$40.00
Brides	"	3.00	25.00
Bridesmaids	"	3.00	25.00
Kaiserin	"	3.50	30.00
President Carnot	"	3.50	30.00

**BASSETT & WASHBURN,**  
 Store: 88 Wabash Avenue, CHICAGO, ILL.  
 Long Distance Phone Main 223.  
 Greenhouse and Residence, Hinsdale, Ill.  
 Long Distance Phone No. 10.

**ILLINOIS CUT FLOWER CO.**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**A. L. RANDALL**  
 Wholesale Florist  
 Don't Forget that we are at 4 Wash-  
 ington St., Chicago.  
 Write for special quotations on large orders.

**Ford Bros...**  
 Wholesale Florists  
 111 West 30th Street, NEW YORK.  
 Consignments Solicited. Telephone, 260 38th St.

**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1675 38th St.

**THE NEW YORK CUT FLOWER CO.,**  
 119 and 121 West 23d Street,  
 112 and 114 West 24th Street,  
 Telephone 733-18th. NEW YORK.  
 CONSIGNMENTS SOLICITED.  
 Special Attention Given to Shipping Orders.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of  
**CUT FLOWERS,**  
 51 WABASH AVENUE,  
 CHICAGO.  
 HEADQUARTERS FOR AMERICAN BEAUTIES.

**REINBERG BROS.**  
 WHOLESALE GROWERS OF  
**...CUT FLOWERS...**

600,000 feet of Glass. We can fill all orders on short notice with all leading varieties of  
 Roses and Carnations. We Are Headquarters for fine American Beauties. Give us a trial and  
 convince yourself.

**ROOTED ROSE CUTTINGS**

AM BEAUTIES	Per 100	Per 1000
BRIDE	1.50	12.50
BRIDESMAID	1.50	12.50
BELLE SIEBRECHT	1.50	12.50

**ROSE PLANTS**

American Beauty	out of 2 1/2 in. pots.	per 100	per 1000
Meteor		3.00	25.00
Bride		2.50	22.50
Bridesmaid		2.50	22.50
La France		2.50	22.50
Kaiserin		2.50	22.50
Stelle Siebrecht		2.50	22.50
Snulax plants		2.00	15.00

**GARNATION CUTTINGS**  
 OUT OF BLACK SOIL.

Wm. Scott	per 100	per 1000
McGowan	\$2.50	\$20.00
Kohlsaar	2.50	20.00
Timbrek	2.50	20.00
Lizzie Gilbert	2.50	20.00
Kimberly	2.50	20.00
Goethe	2.50	20.00
Bridesmaid	2.50	20.00
Jupiter	5.00	40.00
Flora Hill	5.00	40.00
Mayor Pluegse	5.00	40.00

**Mac Donald & McManus**  
 TELEPHONE 2778 38TH STREET  
 SUPPLY  
**ORCHIDS**  
 Every day  
 ONLY HOUSE IN NEW YORK HANDLING  
 EXTRA FANCY STOCK FOR SPECIAL OCCASIONS  
 50 WEST 30TH STREET NEW YORK CITY

**John I. Raynor,**  
 49 WEST 28th STREET,  
**NEW YORK.**

**SPECIAL EXTRA STOCK OF**  
 AM. BEAUTY, METEOR,  
 BRIDESMAID, BRIDE.  
**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

**THOS. YOUNG, JR.**  
 \* \* Wholesale Florist

43 West 28th Street, New York.

**WALTER F. SHERIDAN,**  
 WHOLESALE  
**FLORIST,**  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
 returns for their stock at....  
**JULIUS LANG'S**  
 53 W. 30th Street, - NEW YORK.

**Edward C. Horan.**  
 34 W. 29th Street, NEW YORK,  
**WHOLESALE • FLORIST.**

Careful Shipping to all parts of the country  
 Price list on application.

**WM. C. SMITH,**  
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 40 So. 16th St., PHILADELPHIA.  
 Consignments Solicited. Special attention given to  
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 Long Distance Telephone 5008 A

**M. A. HART,**  
 Commission DEALER IN Cut Flowers,  
 44 WEST 29TH STREET,  
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 THE BEST MARKET IN NEW YORK.  
 \*Phone 1307 38th St.

**TRAENDLY & SCHENCK,**  
 Wholesale Florists,  
 Control the stock of many celebrated growers and  
 are prepared to quote prices on First Grade  
 Cut Flowers. All varieties.  
 38 West 28th St., and Cut Flower Exchange,  
 Tel. 961 18th Street. NEW YORK CITY.

**FRED. EHRET,**  
 Wholesale Florist,  
 No. 1403 Fairmount Avenue,  
 Telephone. Long Distance. PHILADELPHIA.

**Wholesale Flower Markets**

NEW YORK, April 26.

Roses, Beauties, Hybrids.....	4.00@12.00
" Jacqs.....	4.00@8.00
" Bridesmaids, Testout, Carnot.....	.50@4.00
" Morgans, Meteor.....	.50@4.00
Carnations.....	1.00@2.10
Lily of the valley.....	1.00@2.00
Sweet peas, per 100 bunches.....	8.00@10.00
Daffodils, Tulips.....	.50@1.00
Violets.....	.15@.35
Harrisil, Callas.....	1.00@2.50
Smilax.....	12.00@15.00
Asparagus.....	40.00@50.00

BOSTON, April 27.

Roses, Resuties, Brunners.....	5.00@15.00
" Morgan, Meteor.....	1.00@4.00
" Brides, Bridesmaids, Carnot.....	1.00@4.00
Carnations.....	1.00@1.50
fancy.....	1.50@2.00
Lily of the valley, Daffodils, Tulips.....	1.00@2.00
Violets.....	.25@.50
Harrisil, Callas.....	3.00@4.00
Asparagus.....	50.00
Smilax.....	15.00@17.00

PHILADELPHIA April 27.

Roses, Beauties, select, per dozen.....	1.00
medium.....	6.00@15.00
medium.....	16.00@35.00
" Brunners.....	16.00@35.00
" Teas.....	4.00@12.00
Carnations.....	1.00@3.00
Lily of the valley, Narcissus.....	3.00@4.00
Violets.....	.50@.75
Hyacinths.....	2.00@3.00
Harrisil.....	8.00@10.00
Sweet peas.....	.75@1.50
Smilax.....	12.00@15.00

**SAMUEL PENNOCK**  
 WHOLESALE  
**FLORIST.**  
 1612-14-16  
 LUDLOW ST.  
 PHILADELPHIA, PA.

**CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street,**  
**BOSTON, MASS.**

**WELCH BROS., PROPRIETORS.**

Consignments from regular growers assigned separate space in our market. - We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

**J. K. ALLEN,**  
 Wholesale Florist.  
 WHITE VIOLETS, finest quality.  
 EXTRA ROSES and other desirable specialties.  
 57 West 28th Street,  
 Long Distance Telephone 382-38th St NEW YORK.

**GALVIN & CO.**  
 Wholesale Florists  
 AND DEALERS IN ALL  
 FLORISTS' SUPPLIES,  
 4 Ordway Place, BOSTON, MASS.  
 Cut Flower Consignments Solicited. Best market.

**GEORGE A. SUTHERLAND,**  
 Cut Flowers & Florists' Supplies  
 WHOLESALE.  
 67 Bromfield St., BOSTON, MASS.

Wholesale Florists JOBBERS IN  
 ALWAYS ON HAND:  
 CARNATIONS, BRIDESMAIDS, BRIDES. FLORIST'S SUPPLIES.  
 N. F. W. [Signature] FLORISTS' VASES.  
 Horticultural Auctioneers,  
 84 HAWLEY STREET, BOSTON.

**JOHN YOUNG,**  
 ROSES, CARNATIONS, VALLEY  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.

**FRANK MILLANG,**  
 CUT FLOWERS,  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 Cut Flower Exchange. NEW YORK

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN. IRVING ROUSE, Pres.; E. ALBERTSON Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y and Treas.

The Paeony Symposium.

At the next regular meeting of the Florists' Club of Philadelphia, to be held on Tuesday next, May 3rd, the subject for the symposium will be "Paeonies," and Joseph Heacock is down on the cards to open the discussion. Paeonies are attracting more attention at the present than they did at one time; this applies both for outdoor decoration as hardy plants and as cut flowers for the city florists.

The committee on subjects for essays had hoped that owing to the apparent earliness of the season a creditable exhibition would be held in conjunction with the symposium; but the change in the weather since last meeting has decided that it cannot be, except that possibly there may be a few flowers of P. tenuifolia and P. Moutan. Since the last meeting of the club, we have had several degrees of frost hereabouts, and as many of the tree paeonies are quite precocious, some having made six inches of growth at the time they were badly nipped, though not killed, the ragged appearance of the foliage will, it is to be feared, cause many of the flowers to come crippled.

A paeonia show, it was fondly hoped, could be made a feature, for there are some varied and valuable collections of these hardy flowering plants in Philadelphia and vicinity. It is to be hoped that if the show is not well patronized this year it will point the way to a better one next year. I recently saw a block of several hundred plants of the tree paeonia in over fifty varieties; this is the second year after planting, and most of them are well set with flowering buds. It will be interesting to examine them when they commence to bloom, though it will require exhibitions in all the large cities to make them as thoroughly popular as they deserve to be. E. D. W.

A COMMITTEE has been formed with a view to securing funds for the erection, at Brussels, Belgium, of a monument to Jean Linden, botanist and explorer. Comte de Kerchove is president; M. Kegelman, treasurer, and M. Lubbers, secretary. Botanists and horticulturists throughout the world are invited to cooperate in the movement, and subscriptions should be addressed to M. Kegelman, president of the Royal Horticultural Society of Namur, Belgium, in the form of postal orders, payable at Namur.

GRAND RAPIDS, MICH. - Albert H. Rogers, formerly florist at the Lansing Industrial school, died at his home here.

HARDY SHRUBS

Assorted in 25 Varieties.

Mail order \$1.00 per 1000. Descriptive catalogue and price list for the trade.

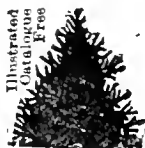
SAMUEL C. MOON,

MORRISVILLE, Bucks Co., PA.

F. & F. NURSERIES

SPRINGFIELD, N. J.

New Fruit and rare Deciduous. Shade Trees, Shrubbery, Lawns, Specimens. 100,000 Plants at lowest prices. Catalogue free. Agents wanted.



EVERGREENS AND FOREST TREES



FLORISTS AS WELL AS NURSERYMEN HANDLE MY NURSERY-GROWN EVERGREENS AT A BIG PROFIT

Leaders for this season. 300,000 transplanted Hemlocks. Over 1,000,000 of the beautiful Rocky Mountain Evergreens. 200,000 Red Cedar from northern seed and millions of the old standard sorts, such as Spruces, Pines, Balsams and Arbor Vitae. My trade list costs you nothing but a postal card.

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**Helpful Reminders.**

At this time, being busy waiting on customers, you are apt to be so economical as to employ no help and neglect stock which you will need later on. Your chrysanthemums in 3-inch pots may be suffering for lack of root room and nutriment. Be careful in repotting to get your broken pots for drainage curved side up. I find many put them in because others do and appear to exercise no judgment about securing perfect drainage. *Hoya carnosa*, the old-fashioned wax plant, is always pleasing, and this is a good time to make two or three layers for next season's sales. You never want a large stock, but cannot afford to be without a few, so cut off a few leaves and bury the stems in a small pot of light soil in a moderately warm situation.

Many plants requiring a shift that you cannot give promptly are benefited by putting a little sheep manure on the surface of their pots. A great number of plants can be gone over in an hour and many may be saved in this way.

All geraniums should have their last shift before now. No cuttings should be taken from plants you wish to sell. Don't crowd. Plants of *Lilium lanceifolium* and *L. auratum* that were potted in February should be brought to light now. If you have none, they can still be had, but will be a trifle later. A few clumps of *eulalia* or *Arundo Donax* should be started to cut with the lily flowers as there is nothing like choice grass foliage to help out lilies and gladiolus. Give a few feet of bench room to pink and white asters if you can, as a small lot always comes in well for early crop. Smilax seed should be sown now for July or August planting. A second batch of *Asparagus tenuissimus plumosus*, *A. Sprengeri* and *Grevillea robusta* should be sown now, as it is stock which you will always be using and you must keep a few batches growing on.

You are having inquiry about clematis for outside planting now and perhaps customers complain of the number they have planted and lost. You cannot afford to let such a state of affairs exist with a customer. Take ten minutes to explain that the trouble is that they set their clematis at the side of a house where it gets little or no rain but gets the natural amount of sun besides that which is reflected from the wall. Probably they are on top of a lot of rubbish, brick-bats and lime filled in when the house was built. Give the dissatisfied customer a plant and tell him to place it according to directions and if satisfied with results by September to come in and pay for it.

Tell your customer to dig a trench four feet out from the wall; have it one foot wide and three feet deep; put tile or board spout in the trench at end furthest from wall; put in one foot of turf with some old manure; then fill up with loam; plant the root as usual next to the house; fill in the trench quite full, keep water running in the spout or tile at the end of the trench all the time you are filling but never wet the surface; when the earth becomes dry again, pour in more water in the same way; it will take at least a half barrel to do it thoroughly. Have a good wire trellis put up, and by fall you will find that the roots have extended as far as the trench was dug away from the building and quite as deep, so that the plant will not suffer with dry heat or lack of moisture. You will soon see the result of this care as your customer will be delighted and will help to advertise you. When you have a customer who is annoyed by a neighbor's window and wishes

it could be screened without a fence, set out a small Lombardy poplar; at its base plant a bitter sweet vine and *Clematis paniculata*. Feed well and the window will be hidden by a mass of vines in two seasons.

Peonies outside should be cleaned, soil loosened and a top dressing given them at once. The same is true of candidum lilies. C. B. W.

**Catalogues Received.**

Robert Craig & Son, Philadelphia, Pa., plants; Geo. Hancock & Son, Grand Haven, Mich., rooted cuttings; James Galen, Bethesda, Pa., plants, shrubs and seeds; Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y., heaters; H. Cannell & Sons, Kent, England, plants; Harens Brothers, Somergem, near Ghent, Belgium, plants.

GENOA JUNCTION, ILL.—Adam Berger is now in charge of Frank Buell's gardens, Mr. Buell having assumed a position in the leading greenhouses at Rockford.

YONKERS, N. Y.—J. R. Paul formerly superintendent of the Stokes estate at Lenox, Mass., will take charge of M. B. Parr's place here on May 1.

WILMINGTON, DEL.—The greenhouses and nurseries of De Vocht & De Wilde, in South Wilmington, have been seized by the sheriff, on a claim for \$5,000, held by various persons.

**N. Dames**

**Vanderhorst  
& Dames...**

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**Lisse and Heemstede, Holland,**

is on his round trip through the United States. To spare time, we beg to send all letters and communications up to May 15, care of

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CHICAGO.—Visitors: F. Barteldes; R. Nicholson, manager Texas Seed & Floral Company, Dallas, Tex.; W. W. Tracy, Detroit, Mich.; A. J. Brown, Grand Rapids, Mich.

BEAN contracts are now being made with farmers in the bean growing districts with difficulty, by reason of the sharp advance in price of Navy beans under the war excitement; farmers are holding off in view of making the common field crops more profitable.

CALIFORNIA reports under recent date only continue to confirm what we have already noted in these columns concerning the drought, and continued poor outlook for 1898 crops there. Some varieties of sweet peas will probably be very short, as well as some kinds of onions.

MINNEAPOLIS.—Business in the mail seed trade has shown an upward tendency for the past week or ten days with scarcely a warble from blue jay and robin red-breast, harbingers of early spring, which is soothing medicine to the nervous mail seedsmen. We, in the Northwest, still hope for a reasonable total spring business with profit enough to at least take a trip to St. Paul this summer to help Brother May clip coupons and spend his surplus profit. From present reports he appears to be the only occupant of the front seat of the band wagon. Latest news from the front this, Monday, morning, April 25: First two mails show 25% increase over Monday, April 18 and 11. Let us take courage, boys, but not "holler" until we are out of the woods. This reminds me that our mutual friend, Burpee, sometimes takes to the woods when business has had a downward tendency, and I wonder if such is the case with him now. S. V. H.

Steam Heated Hotbeds.

All the directions for heating hotbeds by steam which the writer has seen state positively that an air space must be left around the pipes, and necessitate somewhat expensive construction. The writer has operated two 100-foot hotbeds through several seasons in a much simpler way and to his entire satisfaction.

Three trenches are dug, 2 feet apart and 8 inches deep, of course carefully graded. In these are laid three runs of 1-inch pipes, it to be used more than one season the pipe should be galvanized and arranged so as to be disconnected and carefully drained in the fall when not in use. The trenches are then filled up and the soil carefully tamped into them. Ordinary hotbed frames of 1½ inch boards (2 inches of course better), 6 feet wide and set on the ground, over the pipes, so that the outer pipes will be 1 foot inside the edge of the frames. The frames are banked up outside with litter, or even soil, the planting soil or plunging material is put in the frames, the sashes put in and steam turned on. In a few hours the bed is ready for the plants.

When the thermometers indicate a proper soil temperature steam is shut off and the beds will run for a number of hours. It would be well for the beginner to run the beds a couple of days, turning

the steam on and off as the temperature changes, and noting the time which it takes to heat up the soil and the length of time the bed will go without steam. After this information is obtained there is very little trouble—much less than one would suppose. Sufficient water must be used so that the beds do not become dry underneath. Of course the man who occasionally "forgets all about it" can not be trusted to handle such beds and a night fireman is a necessity. N.

TEXT CATERPILLARS are reported by Mr. Murhland, of the New Hampshire Agricultural Experiment Station, as readily attacking the foliage of roses. Spraying with Paris green is recommended.

BROCKTON, MASS.—On Tuesday evening last Mr. John Farquhar delivered his lecture upon "Bulb Growing in Holland and Plant Life in Jamaica," before the Brockton Florists' Club. A very large audience was in attendance and enjoyed the lecture thoroughly.

FAIRFIELD, ME.—The Fairfield Floral Company is having trouble with the postal authorities despite the fact that when an inspector recently examined the firm's methods he stated that he found them legitimate. The case has been taken to the United States court at Portland.



**RAFFIA** BEST QUALITY, LONG MADAGASCAR

Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

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**Milwaukee.**

NEED OF AN HORTICULTURAL SOCIETY TO SEE THAT THE PUBLIC GETS ITS MONEY'S WORTH IN THE PARKS.—NOTES.

The need of a strong horticultural society here is more apparent than ever since the daily papers have made the state of affairs regarding the management of public parks quite prominent. Since Mr. Pettigrew resigned as superintendent of the public parks, Milwaukee has been without an official to exercise professional supervision over the annual expenditure of \$60,000. One of the commissioners who is credited with having caused Mr. Pettigrew's resignation has taken upon himself the duties, and, although the superintendent's salary has been saved, it is claimed to be "penny wise and pound foolish." People of experience see how both time and money are wasted, and it appears that one commissioner has come to realize the situation. This branch of our municipal affairs should have the supervision of a horticultural society to back up men of worth and keep the public posted, much the same as the School Alliance does in a number of cities. A \$20,000 plant of conservatories is soon to be erected in Mitchell Park.

Frank Dilger has a sport of Daybreak carnation a trifle darker than is usual from which he will propagate and improve his crop for next season.

It is quite safe to say that Ben. Gregory's house of Daybreaks and Blanche Ferry sweet peas is as perfect a lot of pink as has been seen in this locality.

It appears to be fashionable now-a-days to offer one's place for sale on "account of failing health." One grower in this state who did this had calculated on forming a partnership and taking up the Blue Mound establishment to improve his health. As the opportunity was seized by another party he will recuperate where he is.

Narcissus princeps, outside grown, and trailing arbutus are in market, and amaryllis, iris and Bride gladiolus are shown in windows.

Chas. Baumgarden has opened a stand with Gregg Bros., on Van Buren street.  
C. B. W.

**Summer Treatment of Azaleas.**

ED. AM. FLORIST:—I have had some azaleas for two years, and now wish to know what to do with them. Can you kindly advise me as to their treatment?  
M. K.

The proper time to pot azaleas is after they are through flowering. Having accomplished their work in the show houses, they are one by one put under the bench—but not left to dry, which would mean the loss of the plants—until a space in the hotbed is made vacant by the removal of bedding plants to their stationary quarters. They are now potted, using a mixture of peat (if on hand), leaf mold, decomposed sod and sand in almost equal parts. In potting we are not afraid of packing the soil solid with a piece of wood in the shape of a table knife and about one-fourth of an inch thick. This will prevent the water from draining through the newly added soil without first soaking the solid ball of fibrous roots. A liberal amount of drainage material should be placed in the bottom of the pots. After potting the plants are plunged to the rim in the hotbed and a shade, consisting of laths about one inch apart, placed over them. This shade is put on a frame nailed to the hotbed but can be elevated to any desirable height. We use

the hotbeds because the plants are here more easily attended to than in some isolated place, otherwise the north side of a house would be just as desirable. Azaleas need plenty of water during the growing season, and I think this is the main point if success is desired. Once dry they will never recuperate. As soon as cool weather sets in they are placed in a greenhouse with a temperature of from 45° to 50° until they commence to bloom, when they are removed to the show houses. To obtain a few plants at an earlier season, they should be gradually inured to a temperature of from 60° to 65°. The same treatment is given to rhododendrons and camellias.  
J. JENSEN.

HINCKLEY, ILL.—Mrs. Partridge, being about to remove to Chicago, has leased her greenhouse to John Gustafson

**A New Asparagus.**

In addition to the well-known nanus, another form of Asparagus plumosus has now appeared, and is grown by Mr. T. Jannoch, at Dershingham, near King's Lynn. The new variety, called cristatus, has deep green branches, somewhat more densely clothed with verticillate clusters than the ordinary A. plumosus. The chief charm of the plant, however, consists in the main rachis being several times divided toward the tip, then producing a beautiful cresting after the style of the crested varieties of Pteris serrulata cristata, only, of course, much finer and more graceful in appearance. In addition to the crested peculiarity it may be added that the plant is not a climber, so that if grown in pots it should prove very attractive and a great acquisition.—*The Garden.*

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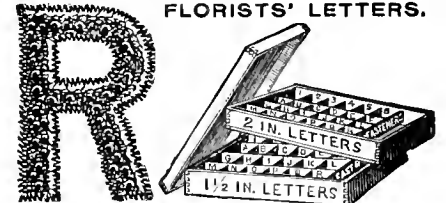
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HYACINTHS, TULIPS, CROCUS, DAFFODILS, AND OTHER BULBS. ALSO SHRUBS AND PLANTS.

THEY are strictly first-class and cheap. Special quotations for Wholesale Importers. Address all correspondence until May 15th to

H. VAN ZONNEVELD  
care J. W. Hampton, Jr. & Co., 41 Broadway, New York

When writing mention American Florist.



IMPORTERS

## JAPANESE PLANTS, BULBS, ETC.

At lowest prices. Small orders filled from exportmentary warehouse. Columbia Road, Fenchester, Mass. Wholesale catalogue 1898 free to the trade.

JAPANESE NURSERY,

Office: 272 Boylston St., BOSTON, MASS.

## TO IMPORTERS!

HAERENS BROS.

From SOMERGEM near Ghent, Belgium

SPECIAL growers and exporters of Azaleas, Palms, Aracaceae, and other decorative plants, take pleasure to inform you that their Mr. AUG. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their New Azaleas will be the favorites of the future. Write for price list and special offer until May 10th.

AUGUST HAERENS CARE OF ... VAN DER GRIET CO.  
66 Beaver St., New York City.

## Beerhorst... & Van Leeuwen

GROWERS SASSENHEIM, HOLLAND.

## Dutch Bulbs

AND PLANTS FOR AMERICAN MARKET.  
Ask for Wholesale Prices.

We will stay in America until May 10th. Please address letters to

L. Van Leeuwen,

CARE COLONADE HOTEL,  
726 Broadway, - NEW YORK, N. Y.



MONTBRETIAS.

**DAHLIAS.**

A fine assortment of 25 Double Cactus, 12 Double Show and Fancy, 20 Pompon, strong field-grown roots, \$1.00 per doz.; \$8.00 per 100.

# Dreer's "Special Offer" of... Seasonable Bulbs AND Tubers

ALL of the following are selected strains and must not be confounded with cheap, undersized, poorly selected stocks.....

**SINGLE TUBEROUS-ROOTED BEGONIAS**

Separate colors—Crimson, Scarlet, White, Rose, Yellow and Orange. 50c. per dozen; \$3.00 per 100; \$25.00 per 1000.  
 Choicest Single Varieties in Mixture.....40c per dozen; \$2.50 per 100; \$20.00 per 1000.

**DOUBLE TUBEROUS-ROOTED BEGONIAS**

Separate colors—Scarlet, Rose, White and Yellow. \$1.25 per dozen; \$10.00 per 100; \$90.00 per 1000.  
 Choicest Double Mixed.....\$1.00 per dozen. \$ 8.00 per 100; \$70.00 per 1000.

**GLOXINIAS**

A Superb Strain in Choicest Mixture.....7c. per dozen; \$5.00 per 100; \$40.00 per 1000.

**GLADIOLUS**

White and Light sorts, mixed, extra fine for cutting.....\$2.00 per 100; \$18.00 per 1000.  
 American Hybrids, all colors mixed.....\$1.25 per 100; \$12.00 per 1000.

**TUBEROSES.**

True Dwarf Double Pearl, selected 4 to 6 inch bulbs, 85c per 100; \$7.50 per 1000.

**JAPANESE LILIES.**

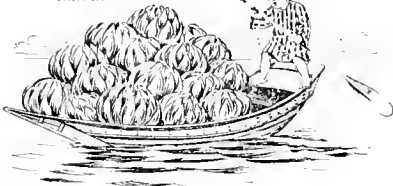
SEND FOR LIST OF SORTS AND PRICES.

**MONTBRETIAS.**

One of the most desirable of our Summer and Fall flowering bulbs, comparatively but little known, but certain to become popular. Six choice named sorts, 35c per doz.; \$2.50 per 100.

**HENRY A. DREER, - 714 Chestnut St., PHILADELPHIA, PA.**

WATSON'S LILY BULBS FROM JAPAN



LONGIFLORUM PURE STOCK. SOUND AND WELL RIPPENED.

On account of the scarcity of the larger sizes of JAPAN LONGIFLORUM and the large demand for same this season I have to request that orders be booked EARLY to avoid disappointment. I offer 3 sizes namely: 5-7, 7-9 and 9-10 inches, but can only accept orders for the larger sizes when fair proportion of the smaller is taken. Delivery Sept. 25 to Oct. 15, 1898. Would be pleased also to get your general order for other Forcing Bulbs and Roots at same time. Address all orders and correspondence to Juniper and Walnut Sts., Philadelphia.

G. C. WATSON.

**BULBS** For FLORISTS.. For SEEDSMEN.

**VAN ZANTEN BROTHERS,** HILLEGOM, - HOLLAND.

# NOW IS THE TIME TO CONTRACT FOR JAPAN LILIAM LONGIFLORUM

Our "Easter" Brand has a reputation. This stock will be none too plenty this year and we believe prices will advance before time of delivery. We can make favorable rates **NOW**. A card stating probable quantity required will start quotations.

**SURPLUS BARGAINS**

A limited surplus of the following bulbs. We make prices low to close out. Quality guaranteed.....

**Tuberose...**

	Per 100	Per 1000
Dwarf Excelsior Pearl, strictly first size.....	\$ .75	\$7.50
3000 for \$19.00.		
Second size.....	.50	3.50
All bloomers; 3000 for \$9.00.		
Tall Double, first size.....	.75	6.50
Variiegated Leaved, first size.....	1.00	10.00

**Speciosum Lilies...**

	Per 100	Per 1000
Album..... 7-9 inch.....	\$1.50	\$10.00
"..... 9-11 ".....	5.50	50.00
"..... 11-13 ".....	7.50	70.00
Rubrum..... 6-8 ".....	2.25	20.00
"..... 7-9 ".....	3.50	30.00
Melpomeue..... 7-9 ".....	3.50	30.00



## CALADIUM ESCULENTUM

**SPOTTED LEAF CALLA**  
 Per 100, \$2.50 Per 1000, \$20.00.

## C. ESCULENTUM

	Per 100	Per 1000
5 to 7 inches in circumference.....	\$ 3.00	\$30.00
7 to 9 ".....	4.50	45.00
9 to 12 ".....	8.00	80.00
12 inches and up.....	15.00	150.00

**BEGONIAS, GLOXINIAS, Etc.**  
 AT CLOSE FIGURES.

**VAUGHAN'S SEED STORE,**

CHICAGO: 84-86 RANDOLPH ST.

NEW YORK: 14 BARCLAY ST.

Headquarters for FANCY BULB STOCK AT REASONABLE PRICES.

# THE AMERICAN FLORIST COMPANY'S DIRECTORY NEW EDITION

Price \$2.00.

AMERICAN FLORIST COMPANY, 324 Dearborn Street, CHICAGO.

**Coming Exhibitions.**

We are in receipt of the advance premium list of the twelfth annual chrysanthemum show and floral festival of the State Florists' Association of Indiana, to be held at Tomlinson's Hall, Indianapolis, Ind., Nov. 8, 9, 10, 11 and 12, 1898. Secretary, R. A. McKeand, Garfield Park, Indianapolis, Ind.

The preliminary list of the premiums to be offered at the eighth annual chrysanthemum exhibition of the St. Louis Florists' Club has come to hand. The exhibition will be held at the Coliseum November 14, 15, 16, 17 and 18, 1898. Secretary, Emil Schray, 4101 Pennsylvania avenue, St. Louis, Mo.

From Frankfort-on-Main we have received the programme of the great rose show to be held there from June to September of the present year.

SYRACUSE, N. Y.—The Central New York Horticultural Society gave its fourth complimentary lecture to its members and friends on the evening of April 22. The address was by Edward A. Powell, who discussed "Plant Life in the Park, the Garden and the Home."

SACO, ME.—Alonzo Hill has gone into insolvency. A meeting of creditors to prove claims and choose an assignee will be held at the Probate Court Room in Alfred on May 4.

**ROBT. CRAIG & SON**  
*Roses, Palms*  
and Novelties in Decorative Plants.  
Market and 49th Street, PHILADELPHIA, PA.

**Rose Hill Nurseries**

LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Aracacias, Pandanus ...

SIEBRECHT & SON, New Rochelle, N. Y.  
New York Office, 409 Fifth Ave.

**Just Arrived**

IN FINE CONDITION

Odontoglossum Crispum, Miltonia Roezlii, Cattleya Chocoensis, Cattleya Labiata, Oncidium Varicosum Rogersii.

LAGER & HURRELL, Summit, N. J.

**Rex Begonias**

The most complete collection in America. Nice 2 1/2 in. stock \$5.00 per hundred

G. R. GAUSE & CO. RICHMOND, IND.

**PALMS and FERNS**

The Largest Stock OF PLANTS IN THE WEST

**GEO Wittbold**  
1708  
K. MALSTEDT  
CHICAGO



**Kentia Palm Seeds**

Fresh Seeds of Kentia Belmoreana and Forsteriana by the case of 5000 Seeds received direct from Australia. Price \$17.50 net cash, F. O. B. New York. Prices for large quantities on application.....

**Australian Palm Seed Co.**

ROOM 52.

90 Nassau Street, NEW YORK.

**Asparagus Sprengerii**

For another week (before potting up) we offer small dormant 1-year roots @ \$5.00 per 100. These bulbs will quickly make strong 2 1/2-inch pot plants.

- Ficus Elastica, true, large leaf variety, 6 inch pots, 20 inches high @ 50c each.
- Crimson Rambler Roses, extra fine, bushy plants, in 4-inch pots, will soon bloom, per dozen, \$2.00; per 100, \$15.00.
- Cycas Revoluta, dormant stems, size from 3 to 10 lb. @ 15c per lb.
- Clothide Souper, the great pot rose, our stock is A No. 1, 2-in. @ \$3.00; 2 1/2-in. @ \$4.00; 3-in. @ \$6.00; 3 1/2-in. @ \$8.00 per 100.
- Dahlias, 2 1/2-in. pot plants, in named varieties, per 100, \$5.00.
- Pelargoniums Mme. Thibaut, Mrs. Robt. Sandford, Edward Perkins and Dorothy, strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.
- For Cannas, Carnations, Chrysanthemums, send us your list; we have all kinds.
- H. P. Roses, dormant, 2-year, extra fine stock @ \$12.00 per 100.
- Clematis, Ampelopsis Veitchii, Hollyhocks, Peonies, Hydrangeas P. G., etc., we have in large quantities; write us for prices.

**VAUGHAN'S SEED STORE,**

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

**Crotons...**

IN VARIETY

Rothschild, Hawker, Interruptum, Evansianum, Rubra Lutea, Andreanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.  
Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz., \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100, thumb pots, \$1 per doz.; \$6 per 100.

Edwin Lonsdale,

Florist, CHESTNUT 1001, PHILA., PA.

**HERE WE ARE FOR 4 Weeks**

FIRST COME, FIRST SERVED.

- FUCHSIAS in assorted varieties, double, 2 in. \$1.00, single, 1 in. \$2.40
- HIBISCUS in assortment, single and double, 2 1/2 in. \$3.00, 3 in. \$5.00
- JESSAMINE Grandiflora, 2 1/2 in. \$3.00, Grand Duke, 1 in. \$5.00, Maid of Orleans, 4 in. \$8.00, 1 in. \$8.00
- Rhynchospermum Jasminoides, 2 in. to bloom 1 in. \$3.00
- SMILAX, good strong plants 2 in. \$2.00
- 2000 MOON VINES, strong plants, 2 in. \$3.00

NANZ & NEUNER, LOUISVILLE, KY.

**PALM Seed.** FRESH ON HAND

	per 100	1000	3000
COCOS WEDDELIANA.	\$1.00	\$7.50	\$20.00
LATANIA BORBONICA.	.50	3.00	7.50
KENTIA BELMOREANA.	1.00	7.00	20.00
" FORSTERIANA.	1.00	7.00	20.00
ASPARAGUS PLUMOSUS NANUS.	1.50	12.50	35.00
" CANARIENSIS.	1.50	12.50	35.00
" SPRENGERII.	1.50	12.50	35.00

J. L. SCHILLER,

404 E. 34th St., NEW YORK CITY.

Please mention American Florist.

**STRONG STOCK TO POT ON NOW.**

**JOHN H. LEY,**

GOOD HOPE, - WASHINGTON, D. C.

Offers clean well rooted plants as below:

- Areca Lutescens, 2 ft. thick, 4-inch, Per 100, \$25.00
- Orange Trees, 2 ft., full of green fruit, 5-in. pots, 25.00
- Phoenix Reclinata, 4-inch pots, 8.00
- Phoenix Reclinata, 2-inch pots, 5.00
- Ferns, from flats, 8 good sorts, mailed, 1.25
- \$10.00 per 1000 by express.
- Oreodora Regia, 5-inch, 3 in a pot, (Royal Palm) Per dozen, \$8.00
- 3 to 4 feet high
- Phenacophorum Sechellarum, 4-inch, nice plants of this rare palm, 24.00
- Lomatia globba, 1 inch, 1.00
- Nephrolepis d. turcans, 5-inch, extra large, 5.00
- " " " " 6-inch, fl. for 3 inch, 9.00
- Pandanus Hills, 5-inch, extra large, 4.00
- Well packed. Cash with order.

Per 100

DOUBLE PETUNIA, Dreer's strain, strong, \$2.50

RUSSELLIA JUNCEA, 2 1/2-in., strong 3.00

AMPELOPSIS VEITCHII, 2 1/2-in., 2.50

PALM Latania Borbonica, 2 1/2-inch, 3 to 4 leaves, per 1000, \$40.00, 4.50

THOS. A. McBETH, Springfield, O.

**CAN YOU USE ANY**

Latania Borbonica in 4-in. pots at 25 cents each.  
Kentia Belmoreana in 4-in. pots at 50 cents each.  
Cocos Weddeliana in 3 in. pots at 20 cents each.  
Vines, fine plants, 8 cents each.  
Nice stock rubber plants.

If you can, send cash with order to

**THE F. R. WILLIAMS CO.**

WHOLESALE FLORISTS AND SHIPPERS OF CUT FLOWERS.

60 Huron Street, - CLEVELAND, O.

**BORONIA BORONIA**

I will have a very nice stock of these in perfect condition for autumn delivery.  
Boronia heterophylla, from 20 cents to \$1.00 each.  
Boronia elatior, from 20 cents to \$1.00 each.

**AZALEAS** - Grow especially for American trade at very favorable prices.  
Palms, Dracaenas, Araucarias, Acacias, Kalnia, Latifolia, Rhododendrons, Etc.  
Sweet Bays, standards and Pyramids. Description and prices on application.

ARTHUR DE MEYER, Nurseryman, Mont St. Amand, Chent, Belgium.

Spring and Fall Heating for Roses.

C. R., Park Ridge, Ill., asks for information that will enable him to put in a small steam plant to be used spring and fall principally, not so much for the purpose of heating, I take it, as to be able to utilize the pipes to keep down mildew, which he has difficulty in doing at the present.

If to be used only for raising fumes from the sulphur, and to give a little heat in very mild weather, in place of keeping fires in the hot water boilers, two 1 1/4-inch pipes to each house would serve the purpose. Place them under the benches, one on each side of the house, convenient to the walks. If conditions permit have a continuous fall in the pipe from the steam main to the place where it connects with the drip. Should the grade of the house render this impracticable the flow pipe may be laid on the up-grade, and the return on the down. In that case, however, the flow must have a connection at its lowest point with the main return pipe to drain off all condensation. It is understood, of course, that the boiler is located at the lowest end of the greenhouses.

For a plant of eight houses, each 18x100 feet, the main steam pipe need not be larger at the boiler than 2 1/2 inches, and should be gradually reduced as it nears the end of the range. It is advisable to have the main carried overhead in the shed, well up above the greenhouse doors and to cover it with asbestos or some other material to prevent unnecessary waste of heat and, of course, condensation. The main drip pipe may be 2-inch, and should be laid below the water line of the boiler.

A boiler of twenty-five horse-power would furnish sufficient steam for the range in question, though it is always economy to have at the start a surplus of heating capacity, and not risk a shortage. A horizontal, return tubular boiler is a better style for greenhouse heating than an upright boiler, as with it less heat goes to waste, and it is more desirable in other ways. To get the water back easily by gravity the boiler must be set low. If possible, the water line should be five feet below the lowest level of circulating pipes. ROBT. SIMPSON.

In a recent bulletin of the Purdue University Agricultural Experiment Station on the indoor culture of lettuce Prof. Arthur states that no good effects were obtained by adding chemical fertilizers, such as muriate of potash, sulphate of ammonia and dissolved bone black, to a soil already made rich with an abundance of stable manure. It should be remembered, however, that lettuce is a quick growing crop, occupying the soil but a short time and results from trials with lettuce may not be comparable, in many respects, with florists' crops occupying the benches for a much longer time.

TACOMA, WASH.—J. E. Baker, State Commissioner of Horticulture, has notified the Department of Agriculture at Washington of discrimination against nursery stock consigned from the United States to British Columbia. No complaints of infection have been made, but all recent shipments have been turned back. Mr. Baker asks that steps be at once taken to remove the prohibition and recommends that nurserymen withhold for a time shipment of orders from British Columbia.

It is good business policy to mention the American Florist when you write to our advertisers

60,000 FORCING ROSES PRIME STOCK ONLY.

Table listing various rose varieties and their prices per 100 and per 1000. Includes The Bride, Bridesmaid, Mme. Chateaux, Perle des Jardins, Meteor, La France, Duchess of Albany, Kaiserin Victoria, Niphotos, Papa Gontier, Climbing Perle, Clothilde Soupert, Mossella, American Beauties.

Send for our wholesale price list of all home-grown stock. Palms, Ferns, Decorative Plants, Etc. . . .

J. B. HEISS,

The Exotic Nurseries,

115 So. Main St., DAYTON, OHIO.

NEW FORCING ROSE

MRS. ROBT. GARRETT

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

H. WEBER & SONS, Oakland, Md.

ROSES OWN ROOTS. DORMANT FIELD GROWN

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet Yellow Rambler (Aglia) Hybrid Perpetuals. Mosses, Hardy Climbers and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

W. F. HEIKES, Manager.

1308-1310 Unity Bldg., - CHICAGO, ILLS.

ROSES..

Table showing prices for Am. Beauties, Perle, and Bridesmaid in 2-inch and 3-inch pots.

MAPLEWOOD CUT FLOWER and PLANT CO. PLEASANT HILL, MO.

Memorial Rose

(Rosa Wichuriana)

Strong field-grown plants, \$50, \$75 and \$100 per 1000

SAM'L C. MOON, MORRISVILLE, Bucks Co., PA.

Table for Roses with prices for Am. Beauties, Brides, Bridesmaid, Perles, and Meteors in 3-inch and 4-inch pots.

Allen & Ockerlund,

114 Winona Ave.,

Station X. CHICAGO, ILL.

ROSES...

Table for Perles, Meteors, Bridesmaid, and Bride in pots.

Guaranteed first-class. Stock grown in low temperature.

THE E. HIPPARO CO., Youngstown, Ohio.

300,000 YOUNG ROSES 300,000

Ramblers, Climb. Malmaison, Climb. White Pet, Climb. Wootton, Pres. Carnot and 100 other leaders in Teas, H. Teas and Climbers. Send for prices. Moon Vines, \$2.50 per 100. Rose Geraniums, \$2.50 per 100.

The National Plant Company, Dayton, Ohio.

AM. BEAUTY

I have a nice stock for early planting; 3-in. pots, \$6.00 per 100; 4-in. pots, \$5.00 per 100. California Violets, extra large clumps, \$5.00 per 100, will divide up into 10 to 15 plants. Austria Channas, strong plants @ 2c.

W. W. COLES, Kokomo, Ind.

Write for Prices

of Beauties, Meteors, Belle Siebrecht, Perles, Maids and Brides in 2-inch; same varieties and La France and V. Kaiserin in 3-inch. Smilax in 2-inch. If samples are wanted send 50c in stamps.

GEO. A. KUHL, - PEKIN, ILL.

H. P. ROSES

FROM 2 1/2-2 INCH POTS.

Strong, thrifty, well established plants. General price \$1.00 per 100. Extra fine lot of Climson Ramblers. . . .

Jackson & Perkins Co. NEWARK, NEW YORK.

ROSES

From 3-inch Pots at 2c. Fine clean plants. Price reduced to close out, only a few hundred each. . . .

Alps, Louis Odier, Clothilde Soupert, Jules Margotten, Packed tree Clematis—Henry and Miss Bateman. The leading large white sorts: fine 1 and 2-year field-grown plants like Clematis Viridula, sweet scented, small white flower, 2-year, fine, etc.

W. H. SALTER, Rochester, N. Y.

Do You Plant Beauties?

Am. Beauties, 3 inch at \$5.00 per 100. Not cullings, but clean, strong, well grown stock and guaranteed free from all disease.....

A. DONAGHUE, 108 S. 16th Street, OMAHA, NEB.

AM. BEAUTIES

FINE PLANTS from 3-inch pots, \$10.00 per 100; \$90.00 per 1000.

JOSEPH HEACOCK

WYNCOTE, PA.

**Cement Tiles for Benches.**

ED. AM. FLORIST:—How would cement tiles do for bench bottoms made in strips 18 inches wide by 3 feet long, with two iron rods running through the center the long way to give them strength? In using such a tile on the bench, it should have three supports, one at each end and one in the center. If more drainage is needed make several holes through the tile when the cement is soft. A tile of this character would be cheap, a barrel of cement making a long strip. It would be necessary to use a frame 18x36 inches inside measurement and two inches deep placed on a board a little wider and longer than the frame. The iron rods should then be placed in position and the frame filled with cement, turning out the tile when the cement sets. I do not think there would be much danger of the cement breaking with the strip of iron through it. Wood with me only lasts from two to three years, and it is not convenient to renew it at all times under roses, etc. Perhaps some one may have tried this and can speak from experience of its merits or demerits. F. G. D.

I have never used cement tiles made as described by "F. G. D." but it seems as if the method could be improved upon. In the first place I would not use the iron rods, as they will be likely to weaken rather than strengthen the tiles. Any weight sufficient to break the tiles will bend the rods. If properly made, a tile of the size described will bear any ordinary weight without the rods; in fact, if made of good cement it would answer without a middle support. The latter might do as much harm as good if any of the supports should settle so as to become out of line with the others, as the tiles would then be as likely to crack as though there was no middle support. My own choice would be to make the tiles square, measuring from eighteen to twenty-four inches on a side, according to the width of the benches. L. R. Taft.

ALBANY, N. Y.—The Court of Claims has awarded Siebrecht & Wadley, of New York city, \$5,500 for injury to plants and shrubbery used at the New York state building at the World's Fair. The firm asked damages of \$17,917.

AURORA, ILL.—W. K. Rees and J. A. Freeman, successful greenhouse owners and good aldermen, were last week re-elected to the city council.

**NATHAN SMITH & SON**

Wholesale Florists

Specialties  ADRIAN, MICH.


CHRYSANTHEMUMS

CARNATIONS 

AND VIOLETS 


... CORRESPONDENCE SOLICITED ...

**ROSES, VERBENAS, VIOLETS**

Flora Hill, 20,000 at greatly reduced prices. Don't miss planting the best of all whites. 

Invariably at these prices. Cash with Order. **F. WALKER & CO.** Box 310, New Albany, Ind.

**Flora Hill**

20,000 at greatly reduced prices. Don't miss planting the best of all whites. 

**H. F. Littlefield**

WORCESTER, MASS.

**BONE FLOUR**

PRICE: \$1.75 per 100 lbs. .... \$30.00 per ton.

One of many testimonials:

Washington, D. C., April 4, '98.  
H. F. LITTLEFIELD,  
Dear Sir—I take pleasure in testifying to the excellence of your Bone Flour and I feel sure that I am indebted to its purity and responsive qualities for splendid results obtained during the past season.  
JOS. R. FREEMAN.

**Chrysanthemum Mrs. A. F. Wienold**

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Borgmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2 1/2-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

CAL. VIOLETS. No disease. Strong runners. 50c per 100; \$4 per 1000. **McDONALD & STEELE, Crawfordsville, Ind.**


**Chrysanthemum PRESIDENT GRAHAM**

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

**E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.**

**CARNATIONS FROM SOIL**

Kathleen Pantlind, \$10 per 100.  Flora Hill, \$5 per 100.  
Beauties, 2 1-2 in., \$6 per 100. Carnots, 2 1-2 in., \$4 per 100.

**HOPP & LEMKE, Paul P. O. E. Grand Rapids, Mich.**

TO

**Make Room**

Aster Plants, 60c per 100, or \$5 per 1000.  
Pansies, transplanted, 60c per 100, or \$5 per 1000.  
Salvia Clara Bedman, 3 in., 60c \$2.50 per 100.  
Salvia Clara Bedman, 2 1/2 in., 60c \$1.50 per 100.  
Petunias, Drees's strain, 3 inch, strong, \$2.50 per 100.  
Geraniums, choles mixed, 3 inch, strong, \$2.50 per 100.  
Feverfew, Little Gem, 2 1/2 inch, strong, \$1.50 per 100.  
Lycopodium Dent., 2 1/2 in., strong \$1.50 per 100.  
Aithernanthera natan nam, 2 1/2 inch, strong \$1.50 per 100.  
Hardy Pink and White Pinks, strong clumps, \$1.00 per 100.  
John White Carnoms, 1 in. 60c, \$5.00 per 100.  
strong R. C. Carnations, 20 varieties, Above are all extra strong plants.

**THE MORRIS FLORAL CO., MORRIS, ILL.**

**REDUCED PRICES**

Very Fine Rooted

**Carnation Cuttings**

Taken from our "Prize" Stock.

MCCOWAN ALASKA ALBERTINI  
HELEN KELLER ARMAZINDY  
DAYBREAK

62c per 100, \$15.00 per 1000.

**SOUTH PARK FLORAL CO., New Castle, Ind.**

**New CARNATIONS.**

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Wittestaetter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons). All good 1897 novelties and other standard varieties at reasonable prices.

**New Chrysanthemums.**

MRS. C. H. PEIRCE—Yellow.  
3 1/2c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
3 1/2c each, \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
3 1/2c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898.

**F. DORNER & SONS CO.**

LAFAYETTE, IND.

**CARNATIONS**

STRONG, HEALTHY ROOTED CUTTINGS Ready Feb. 1st and Later

Including Morella, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**

Lock Box 11. GRAND RAPIDS, MICH.



Altoona, Pa.

A. A. Whitbred's experience with his Harrisii is worth recording.

"I planted my Harrisii," he said, "in too batches; 500 for early forcing and 500 for Easter use. Those planted early were given a liberal dose of bone flour with the result that the plants were the poorest looking lot I have had in my place. The second lot, given nothing more than cow manure, came out in fine shape with but very few diseased plants. This experience will certainly be my guide during the coming season."

This is a very simple process, to be sure, and is another proof that at times the most complicated cases require but the simplest of treatment.

Myers Bros. report the best Easter trade they have had for years. In addition to their store and greenhouses, they had a temporary place in the heart of the business center. It was a paying venture.

Mr. Whitbred is building an additional rose house. HOMO.

NEWPORT, R. I.—Articles of incorporation of the Newport Horticultural Society have been filed at the office of the Secretary of State.

THE BEST OF THE NEW PINK CARNATIONS

Mrs. Frances Joost A WINNER EVERYWHERE.

\$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. Cash with order.

C. BESOLD, Mineola, L. I., N. Y.

FLORA HILL CARNATION. It sells because there is nothing in sight to it at all equal to it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing past or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100; \$40.00 per 1000. Our trade list is issued. If you have not received one send for it.

E. G. HILL & CO., Richmond, Ind.

Bread and Butter Carnations

Scott and Rose Queen for Pink; Emily Pierson for Red; Meteor, Crimson; McGowan and Kohinoor for White. No experiment and disappointment growing these carnations. Strong rooted cuttings \$1.00 per 100; \$8.00 per thousand. Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

ORDER AT ONCE AND SECURE STOCK

CHRYSANTHEMUMS

Rose Owen, J. H. Woodford, Dorothy Devens, G. F. Atkinson. Golden Trophy, T. B. Morse, Pres. McKinley, Western King, The Herriott, Surprise, Marcia Jones, Elvena, Miss Helen Wright, Belle of Castlewood, Chito, C. W. Ward, Mrs. S. T. Murdock, 75 cts. per dozen; \$5.00 per 100. Glory of Pacific, Maud Dean, Mrs. R. Crawford, W. P. Kaynor, Modesto, Lenawee, Pride of Castlewood, Bonnafon, Ivory, Ruth Ellis, 50 cts. per dozen; \$3.00 per 100. Frank Hardy, T. H. Spaulding, Mrs. O. P. Bassett, The Yellow Fellow, Madeline Pratt, Mrs. C. H. Peirce, Merry Christmas, 35 cts. each; \$3.00 per dozen. Snow Queen, Pennsylvania, 50 cts. each; \$5.00 per dozen. W. H. Chadwick, \$1.00 each; \$6.00 per dozen.

CARNATIONS

Jno. Young, Bon Ton, Mrs. Jas. Dean, White Cloud, New York, Empress and Evelina, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. Lily Dean, C. A. Dana, Mayor Pingree, \$5.00 per 100. Daybreak and Storm King, fine from soil, \$2.00 per 100; \$15.00 per 1000. Scott and McGowan, \$2.00 per 100; \$12.00 per 1000.

CANNAS

Pres. McKinley, Defender, Pres. Cleveland, Tarrytown, 60 cts. each; \$5.00 per dozen. Queen Charlotte, Admiral Avellan, Pres. Carnot, Midway, Ami Pichon, Egandale, Chas. Henderson, \$2.50 per 100. Eldorado, A. Billard, Burbank, Count de Bouchard, Souv. du Pres. Carnot, Souv. d'Antoine Crozy, Papa, \$4.00 per 100.

For full description send for our 1898 wholesale list.

THE COTTAGE GARDENS, Queens, N. Y.

Carnation

The Gem of All the ...Variegated Varieties

Lily Dean

THIS variety is one of the most prolific bloomers of the whole Carnation family, and the blooms sell at the highest price of any variety the year round. A few hundred extra strong transplanted plants just fit to plant in open ground, now ready at \$5.00 per 100; \$40.00 per 1000. Also all the NEW and STANDARD CHRYSANTHEMUMS in extra good stock, now ready.

JOHN N. MAY, Summit, New Jersey.

NEW CARNATION ARGYLE

A few left at the following price \$10.00 per 100; \$75.00 per 1000....

STOLLERY BROS. ARGYLE PARK, CHICAGO, ILL.

ARGYLE THE FINE NEW PINK CARNATION.

LARGE, healthy, free. \$2.00 per doz.; \$10.00 per 100; \$75.00 per 1000. Send for complete list of all the best varieties.

GEO. HANCOCK & SON, Grand Haven, Mich.

\$300 CARNATION PRIZE

See half page ad. in issue of March 26th. Send for our circular.

AMERICAN ROSE COMPANY, Box 422. WASHINGTON, D. C.

Carnations Chrysanthemums

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts.

H. WEBER & SONS, Oakland, Md.

NEW CARNATION....

The largest, bright rich crimson yet introduced...

Empress

Send for price list of above. New and Standard Sorts....

WM. SWAYNE, Box 226, Kennett Square, Pa.

Herr's Smilax

Sample plants sent for 10 cents. 75 cts. per 100, or \$5.00 per 1000.

CARNATION EXPERIENCES

A few hundred left. send your address and get one free.....

ALBERT M. HERR

Lancaster, Pa.

NEW WHITE PERPETUAL BLOOMING CARNATION

Anna H. Shaw

The Best "All Round" White Carnation for Cut Flowers. Recommendations: Wonderful bloomer. Unusual vigor, Rapid Grower, Furns Strong Blooming Plants in a Very Short Time. Perfectly Healthy, Handsome Foliage. Large Beautifully Formed Flowers on Long Stems. Exquisitely Fragrant. Never Bursts, Blooms Longer and Gives More Flowers than Any other Variety Ever Offered. If you want a RELIABLE Carnation that can always be depended upon, give Anne H. Shaw a trial. Rooted Cuttings, \$1 per doz.; \$5 per 100. Strong Plants, \$1.75 per doz.; \$10 per 100. Send for Trade List and Catalogue of Seeds, Bulbs, Plants, Cacti, Etc.

Mrs. Theodosia B. Shepherd, Ventura (by-the-Sea), Cal.

**A Word About Valves.**

What a painful thing it is to go through an otherwise fairly well equipped greenhouse and note the miserable "contraptions" doing duty as steam or water valves; old fashioned, rickety, leaky, sputtering things, that stick when you try to open them and stick worse when you close them. It is all so useless, too, as the first cost of a good valve is so little more than that of a poor one. The life of a thoroughly good valve is more than double that of a cheap one, while in comfort to the workman and economy in steam and water the good one is far in advance of the other. Little leaks of steam, of water, of time in opening and closing, and in repacking and "tinkering," while not great losses, separately, amount to a large sum during a number of years, to say nothing of the satisfaction of having things ship shape.

Cheap valves besides being poorly made are nearly always thin and lacking in metal. They are much given to twisting and springing when being connected, besides their tendency to show side leaks through the wear of the steam against the thin metal. Pick out a good stout fellow who likes to do a good job and set him to repacking one of these valves. If he does not twist the top off the bonnet of the valve it is two to one that he will force the packing through the little thin packing nut. By all means then, select a good heavy valve; there never was one with too much metal in it.

For steam, although gate valves work very well, globe and angle valves are generally used. Metal seat valves very soon wear so that they will not close properly and it is a tedious job to regrind them. A standard make of composition disc valve is much the best for greenhouse conditions. When the old disc becomes worn, which will not be until long after a metal disc becomes leaky, a new disc can be bought for a small sum and easily put in place. For sizes up to and including two inches, brass valves are best, above that size iron body valves with brass trimmings can be used.

For hot water, gate valves should be used with wrought iron pipe, and if with non-rising stems much work in repacking will be saved. They should never be used in a vertical pipe when it can be avoided. For a water supply inside the houses the valve known as a Fuller bib is far handier and more reliable than any other we have used and as the patent has long since expired they are not expensive. As the rubber ball which forms the valve wears, it can be easily tightened by unscrewing the valve and turning the nut back of it. For the water supply shut off a gate valve is best, although as they are not in frequent use, what is known as a round way rough stop will do.

MISSOURI STATE HORTICULTURAL SOCIETY - The summer meeting of the Missouri State Horticultural Society will be held in West Plains, June 7, 8 and 9, 1908. All persons interested in fruit growing are invited to be present. Papers will be read on small fruits, peaches, diseases, insects, marketing and ornamental gardening. The secretary is L. A. Goodman, Westport, Mo.

CONCERN BLETTS, IA - W. B. Reed, the newly elected city treasurer, has sold his interest in the establishment of McPherson & Reed to H. H. Frey, of Lincoln, a veteran in the business. The new firm will make a number of additions to their greenhouses and have leased the room at 1 Pearl street for a retail store.

**100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.**

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000. **NO RUST OR MILDEW.** **PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.** We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

**J. L. DILLON, Bloomsburg, Pa.**

**GERANIUMS**

4 inch Paper Pots, in Bloom.

**PINK, RED and WHITE**  
Best Bedders. . . . Thousands Ready.

.....WRITE.....

**GEO. A. KUHL, - PEKIN, ILL.**

**West Islip Greenhouses**  
**MARIE LOUISE VIOLETS**

Rooted Runners, \$4 per 1000.  
Cash with order.

**E. B. SUTTON, Jr.** P. O. Address.....  
**BABYLON, N. Y.**

**Hydrangeas**

Fine plants with 10 to 30 blooms per plant. 10 cents per bloom...

**JOHN SCOTT, Keap St. Greenhouses,**  
**BROOKLYN, N. Y.**

**PANSIES** WE grow over a million from the choicest seeds of Bugnot, Cassier, Odier and Truimardeau, transplanted last November in cold frames; large plants now ready to bloom, 60c per 100; \$4.00 per 1000; Mammoth Verbenas, 70c per 100; \$5.50 per 1000; Double Geraniums, in bud and bloom, such as S. A. Nutt, Gen'l Grant, La Favorite and many others equally as good. 4-inch, \$6.00 per 100, 3-in., \$4.00 per 100.

**FUCHSIAS**, very branched, loaded with bloom, 4-inch, \$10.00 per 100. 3-inch, \$5.00 per 100.  
**HELLOTROPE**, 4-inch, \$6.00 per 100.  
**VINCA** AS, extra heavy, 4-inch, \$8.00 per 100.  
All the above are very bushy and well branched.

**WHITTON & SONS.**

Wholesale Florists.

City and Green Sts., **UTICA, N. Y.**

**Violet Plants...**

Marie Louise

Strong healthy rooted runners, . . . \$ 6.00 per 1000  
Sand struck cuttings, . . . . . 10.00 per 1000  
Grower of One Million Violets. Cash with order to be filled when purchaser desires.....

**GEORGE SALTFOED, - Rhinebeck, N. Y.**

**FAXON'S "WHITE HOUSE" PANSIES.**

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.  
In Trade Packets at \$1.00 each.  
**M. B. FAXON,**  
Lock Box 1528, **BOSTON, MASS.**  
Correspondence solicited.

**SPECIALTIES**

IN BEST VARIETIES.

**ROSES**, from 3-inch pots  
**CARNATIONS**, for fall delivery.  
**CHRYSANTHEMUMS.**  
**SMILAX.**  
**VIOLETS**

Prices low. Send for list

**WOOD BROTHERS, FISHKILL, N. Y.**

**CLEMATIS** Jackmanni, Henryii doz. 100 and others.....\$3.00 \$20.00

**H. P. Roses** Strong, 2 and 3 years own roots.....\$1.50 \$10.00  
**RED JACKET GOOSEBERRY**, only large native red......75 \$4.00  
**DOWNING**, best for general crop, special prices.

**PAEONIES**, fine assortment of colors and kinds \$1.25 \$8.00  
**SMILAX**, extra strong plants..... \$2.50

**F. A. BALLER, Bloomington, Ill.**

**KLONDIKE**

Cold Fields at Your Door.

**COLEUS**-All kinds, all grades and all prices. Verschaffelti and Queen, 75c per 100; \$5.00 per 1000; 2 1/2-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 55c per 100; \$4.50 per 1000; 2 1/2-inch pot, \$12.00 per 1000; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 1000; \$1.50 per 100. Antemile Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2 1/2 inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychoides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2 1/2-inch pot, \$5.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$15.00 per 1000; Mountain of Snow, 2 1/2-inch pots, \$2.50 per 100; Mme. Sallerol, for flats, \$1.25 per 100; \$10.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000.  
The above are rooted cuttings, except where noted. Cash with the order.

**J. E. FELTHOUSEN, Schenectady, N. Y.**

**CARNATIONS AND COLEUS**

**ROOTED CUTTINGS**

THE 1898 INTRODUCTIONS  
THE 1897 INTRODUCTIONS

**DAYBREAK** of special quality.  
**ROOTED COLEUS** in variety.  
Good stock only. Price list free.

**DAN'L B. LONG, Growers' Agent,**  
**BUFFALO.**

**5,000 SMILAX...**

From flats, by mail, 50c per 100 \$4.00 per 1000  
From 2-inch pots, \$2.25 per 100, \$13.00 per 1000  
Geraniums from 2-inch pots, \$2.25 per 100; \$20.00 per 1000. Cash with the order. Send for samples. **Fred Boerner, CAPE MAY CITY, N. J.**

**PRICES GREATLY REDUCED**

**Cape Cod Pink Pond Lily**

For price lists, Plants and Cut Flowers, address the original cultivators.....

**CHIPMAN BROS.**

**SANDWICH, (CAPE COD), MASS.**

**MUST HAVE ROOM**

**Geraniums** BEBBS, A. Nutt, 2-inch, \$15.00 per 1000; \$2.00 per 100. Rooted Cuttings from soil, \$4.00 per 1000; \$1.50 per 100. Mauv. Bronze, 2-inch, \$3.00 per 100. France Perkin's best Pink 2-in., \$3.00 per 100. **Orangethrift** Indivisa Strong 2-in., \$8.00 per 100. **Coleus** Klondike, strong 2-in., \$5.00 per 100. **Begonia** Vernon, 2-inch, \$2.00 per 100. **Carnation** Mizzie McGowan, soil or pots, \$10.00 per 1000. Cash please.

**CARL HAGENBURGER, West Mentor, Ohio.**

**BENJ. CONNELL, Florist,**  
**WEST GROVE, PA.**

10,000 Anemone Veltchli, fine dormant pot plants. 1 and 2-year old, price \$3 and 6c  
10,000 pot grown 4" minia, cream of bedding sorts.  
30,000 Violets, 30,000 Carnations, 8,000 Anthony Waterer and Blue Spruce; Strawberry Raspberry and other new small fruits. All must be sold. Ask for prices. Address

**BENJ. CONNELL, West Grove, Pa.**



**YOUR ORDER AT ONCE, PLEASE!**

**GERANIUM**

**“Mars”**

Special Certificate of Merit! A Gem! A Beauty!

CHARLESTON, S. C., March 8, 1898  
DEAR SIR: Please send me 100 Mars etc.  
J. M. CONNELLY.

CHARLESTON, S. C., March 12, 1898  
DEAR SIR: Mars received this A. M. I am pleased with them,  
you will please send me another 100 Mars, etc.  
J. M. CONNELLY.

STOCKBRIDGE, MASS., April 18, 1898.  
Enclosed find two dollars for which send me 25 Geranium  
“Mars.” I had one dozen of you and they are fine.  
GEO. SEYMOUR.

LET US HAVE YOUR ORDER AT ONCE

**HENRY EICHHOLZ,**

FRANKLIN CO... WAYNESBORO, PA.

'MOST ANYTHING YOU WANT.

**W. L. SMITH, Aurora, Illinois.**

- \*AGERATUM**  
Cope's Little Pet, \$3.00 per 100; 200 for \$5.
- AMPELOPSIS**  
Young plants for bedding out; \$4 per 100.
- \*ALTERNANTHERAS**  
\$3.00 per 100; 200 for \$5.00.
- BEGONIAS** Finest sorts, \$4.00 per 100.
- CARNATIONS**  
Leading kinds \$3.00 per 100; \$25 per 1000.
- CHRYSANTHEMUMS**  
Finest sorts, our selection; \$3.00 per 100;  
200 for \$5.00.
- \*COLEUS**  
20 varieties; \$3.00 per 100; 200 for \$5.00.
- \*CENTAUREA GYMNOCARPA**  
\$3.00 per 100; 200 for \$5.00.

- DAHLIAS** Of the finest; \$4.00 per 100.
- FEVERFEW**  
Little Gem, \$3.00 per 100. Golden, \$3.00  
per 100; 200 for \$5.00.

**Roses...**

We have most anything you can ask for.  
Just now specially we have some particularly fine 3-inch forcing, \$6 per 100.

- FUCHSIAS In Variety**  
\$3.00 per 100; Phenomenal and Mrs. E. G. Hill, \$4.00 per 100.

- GERANIUMS**  
And we have everything you can think of. Our choice, \$3.00 per 100 Rose, Happy Thought, Mrs. Parker, etc. See our list.

All Marked With Star \$20.00 per 1000.

Look over our Trade List. We can't enumerate everything in an ad like this. Look over the List and keep watch of our ads.

**HELIOTROPE**

Finest ever offered; \$3.00 per 100.

- HOLLYHOCK** Double white; \$4.00 per 100.

- HYDRANGEA HORTENSIS**  
Small for planting out; \$4.00 per 100.

- NERIUM OLEANDER**  
Dbl. Pink and white, \$6.00 per 100.

- OTAHEITE ORANGES**  
Very strong; 3-inch, \$10.00 per 100

- PETUNIAS**  
Dreer's magnificent named sorts, \$4.00 per 100.

- PELARGONIUMS**  
We still have some. Victor and Freddie Heidl, \$6.00 per 100; mixed without label's, \$3.00 per 100.

- \*SANTOLINA INCANA**  
\$3.00 per 100; 200 for \$5.00.

- SMILAX** \$3.00 per 100.

- \*VERBENAS**  
No one has so fine sorts, \$2.50 per 100.

- VINCAS** All sizes

- VIOLETS**  
Marie Louise, California, \$3.00 per 100.

**HARDY PINKS**

2 1/2-in. pots: Souv. de Sale, \$3.50 per 100; Her Majesty, Glen Valley, Laura Wilmer, Gertrude, \$3.00 per 100.

**VIOLETS...**

2 1/2-in. pots: Admiral Avellon, Princess of Wales, \$3.50 per 100; Luxonne, California, Campbell, Swanley White, \$3.00 per 100.

THE CONARD & JONES CO., West Grove, Pa.

**VEGETABLE PLANTS**

Tomato, Cabbage, Lettuce, Celery and Sweet Potato, 1b cts. per 100; \$1.00 per 1000.  
Pepper and Egg Plants, 25c per 100; \$2.00 per 1000.  
Cauliflower Snowball, 35c per 100; \$2.50 per 1000.  
All plants by mail, 10c per 100 extra Price list for large quantities. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.

**ECHEVERIA WANTED...**

1000 plants for carpet beds, from 2 1/2 to 3 1/2 inches in diameter....  
PETTINGELL & HENRY, Toledo, Ohio.

**PANSIES**

THE JENNINGS STRAIN.

THEY ARE GRAND.

Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.

**E. B. JENNINGS,**

Lock Box 254. SOUTHPORT, CONN.  
Grower of the Finest Pansies.

**BARGAINS IN PLANTS FOR CASH**

- French Cannas, Crozy, Queen Charlotte, per 100
- Florence Vaughan, etc, fine plants..... \$4.00
- Ceraniums, Double Grant, 2 1/2 inch pots ..... 2.00
- Salvias, Clara Bedman, 2 1/2 inch pots..... 2.00
- Coleus, 5 varieties, fine, 2 1/2 inch pots..... 2.00
- Pegonia Vernon, fine 2 1/2 inch pots..... 2.00
- Mountain of Snow Ceranium, 2 1/2 in. pots. 3.00

Order at once and get good stock.

**NICHOLAS AMOS, Crestline, Ohio.**

Always mention the.....

**American Florist**

when writing advertisers.

**April Offer.**

- Per 100
- Alternanthera A. Nana, \$1.75; P. Major..... \$2.00
- Begonias, 5 var.- Vernen..... 2.50
- Coleus Asst. and Centaurea Gymnocarpa..... 2.00
- Geraniums, 16 Var., 2 1/2-in. pots, \$2.50; 3-in. 3.75
- Geraniums, 4-in. pots and Marguerites (Paris Daisy)..... 5.00
- Pansy plants from cold frames and Smilax..... 1.00

CASH PLEASE.

**JOS. H. CUNNINGHAM, Delaware, Ohio.**

Please Mention The American Florist.

**Vinca**

- MAJOR Var.** Per 100
- From 4-inch pots..... \$7.00
- From 2-inch pots..... \$3.00

**Sonnenschmidt & Junge**

456 E. Washington St. INDIANAPOLIS, IND.

New Haven, Conn.

The dullness attendant upon the belligerent talk of the last few weeks, seems to have resulted in a period of inactivity with the actual unloosing of the "dogs of war." It is quite natural that the fighting fever should affect the florist's business earlier than most others, and so it seems to be.

Prices remain about the same. Roses are declining in figure as the season grows, and sell for 75 cents to \$1.50 per dozen. Violets remain popular as ever and bring \$1 per 100.

F. S. Platt and Robt. Veitch & Sons report briskness in their seed line, and the demand is fully up to that of other years.

Pansy plants and mountain daisies for bedding purposes are holding their own in popular favor, selling for 35 cents per dozen. J. A. P.

Another Carnation Pest.

ED. AM. FLORIST:—I send by mail specimens of a moth, the caterpillar of which did much damage last winter to carnation flowers before they were ready to open, by boring into the calyx and cutting up the petals. Only for the vigilance of my men in hunting for it nightly it would have destroyed a solid bed forty feet by six. It is new to me. I need scarcely say that it is a night worker. For want of a better name I call it the "burglar." It got justice without process of law. JOHN SPALDING.

The insects sent by Mr. John Spalding from New London, Ct., and which he states are injurious to carnations by boring into the calyx and cutting up the petals, belongs to the species known as the variegated cutworm (*Peridroma saucia*). The specimens transmitted were not in good condition, but specific determination was, nevertheless, possible. This is a general feeder, like most of the cutworms. I have at hand no record of its previously being injurious to carnations in hotheouses. The best method of destroying these cutworms is by means of poisoned bait, directions for the preparation and use of which are given in Farmers' Bulletin, No. 19, as follows: "It is not always advisable or effective to apply arsenicals directly to the plants, and this is particularly true in the case of the attacks of the grasshopper and of the various cutworms and wireworms. In such cases the use of poisoned bait has proven very satisfactory. For locusts, take 1 part, by weight, of white arsenic, 1 of sugar, and 6 of bran, to which add water to make a wet mash. Place a tablespoonful of this at the base of each tree or vine, or apply a line of baits just ahead of the advancing army of grasshoppers, placing a tablespoonful of the mash every 6 or 8 feet, and following up with another line behind the first. For baiting cutworms and wireworms, distribute poisoned green, succulent vegetation, such as freshly cut clover, in small bunches about the infested fields. Dip the bait in a very strong arsenical solution, and protect from drying by covering with boards or stones. Renew the bait as often as it becomes dry, or every three to five days. The bran-arsenical bait will also answer for cutworms." C. L. MARLATT.

Washington, D. C.

SELMA, Ala.—The ladies of the Presbyterian church gave their annual Rose Show on April 19. There were prizes in twenty-four classes and excellent exhibits were numerous.

**THE MALTESE CROSS BRAND**  
**THE VERY BEST OF GARDEN & LAWN**  
**H O S E** **TRADE MARK**  
 if your dealer does not have it send direct to the manufacturers  
 35 Warren Street, NEW YORK. **The Gutta Percha & Rubber Mfg. Co.** 96 Lake Street, CHICAGO.

**Kraft's Plant Tonic** For Plants, Palms and Flowers  
 A Wonderful Preparation for the Promotion of Plant Life, Destruction of Insects and Scale.....

The Tonic makes the foliage of the plant soft and pliable and a beautiful bright green. For sale at.....

84 & 86 RANDOLPH STREET, CHICAGO. **VAUGHAN'S SEED STORE,** 14 BARCLAY STREET, NEW YORK.

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 HAS COME TO STAY ON ITS ..... MERITS.  
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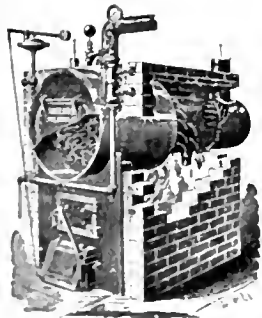
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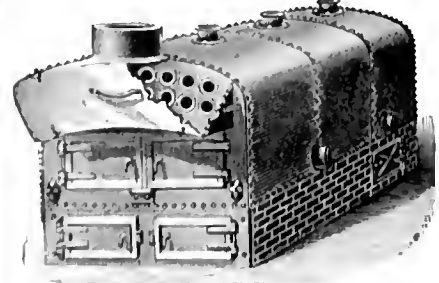
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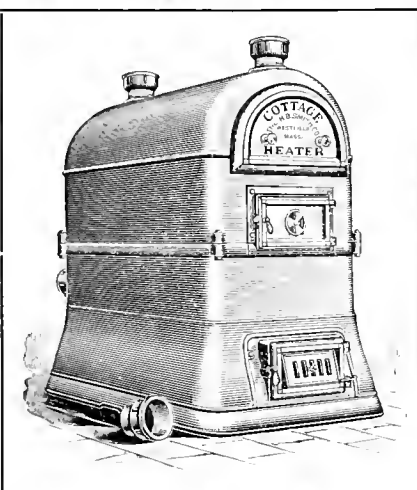
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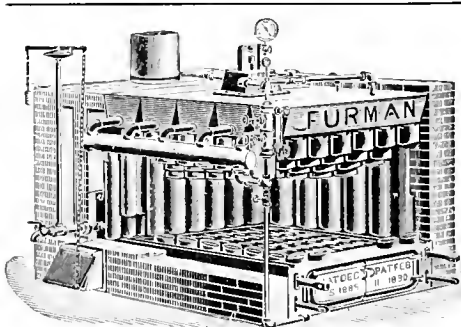
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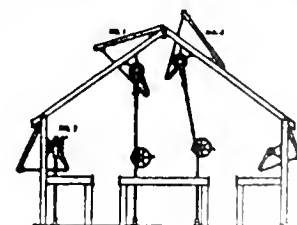
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# THE AMERICAN FLORIST



*America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."*

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No. 518.

## THE AMERICAN FLORIST

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### SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president;  
A. DONAGHUE, Omaha, Neb., vice-president;  
W. J. STEWART, 67 Bromfield St., Boston, Mass.,  
secretary; H. B. BEATTY, Oil City, Pa., treasurer.  
The fourteenth annual meeting will be held at Omaha,  
Neb., August 16-19, 1898.

### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

### CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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LOUISVILLE, KY.—C. K. Kunzman, being dissatisfied with the wholesale methods of disposing of stock, has opened a retail store at Jefferson and Eighth streets.

### The Price of Glass.

FRANK HAYES DISCUSSES THE SITUATION.

The present unexampled conditions in the glass trade are affording no concern to H. M. Hooker, the venerable head of the Hooker Company, through which Chicago growers obtain a large proportion of their transparent roofing. Mr. Hooker has grown gritty in the business in which his pocket book has become plethoric. It was more than four decades ago that he first jobbed glass and made paints. Before that he sold both lines in a drug store which he conducted on Randolph street diagonally across from the present location at the corner of Clinton.

It has been some time since Mr. Hooker shook from himself the cares for the details of his extensive business, placing the reins of management in the hands of Frank Hayes, junior partner in the company, who has been associated with Mr. Hooker for thirty-five years. The senior has not lost his commanding presence, his elastic step or his cheery manner of salutation and is wonderfully well preserved for a man in his seventieth year. He is at his desk each day, but having found strong shoulders to support the burden of business which he so long carried, is enjoying a freedom from responsibility earned by more than half a century of unceasing commercial activity.

Mr. Hayes is said to be one of the best posted glass dealers in Chicago. He makes a study of the trade in all its phases, and in a recent conversation said:

"I am aware that a number of greenhouse owners are postponing large and much needed additions to their establishments, because of the prevailing altitude of the price of glass, and I don't blame them, but I regret that I can hold out no immediate prospect of lower prices; in fact, the next few days will see a further rise of at least 5% and possibly 10%.

"Where we formerly charged a grower \$2.50 for fifty square feet of 16x24 we are now obliged to get \$4, and I agree with the florist who considers the increase unwarranted. It makes far more difference with a greenhouse builder than it does with the man who is putting up any other sort of a structure but the rise is general through all branches of the trade and is solely due to the organization of the American Glass Company, which, at its inception last year, controlled 95% of the furnaces in the country.

"To-day there are approximately 2,000 pots in operation in the United States and Canada. New independent furnaces are starting every day, but their production will not be sufficient to affect the market before June 30, upon which day the making of glass will cease for two

months. The independent concerns will start up September 1, and their capacity by that time may equal 20% of the whole, in which case they may force the combine to begin operations on the same date and may provoke hostilities which will result in a cut in prices. However, such an eventuality is entirely problematical, and in my own mind I see no likelihood of a reduction before December 1, the date of the expiration of the agreement under which the glassmakers are now doing business.

"Never have American glass factories been so busy as they are to-day. The strike which kept the plants tied up for months last fall resulted in the absorption of all the stocks on hand. Then prices took their first leap. This spring's business has been the best in many years despite the fact that prices have not been so high since 1879, and now every factory has more orders than it can execute, with but two months in which to accumulate a stock to tide through the annual summer period of inactivity. The trust has just withdrawn its latest quotations, which indicates that another rise is at hand, and under existing conditions it seems more than probable that prices will achieve further heights before they recede.

"When the glass workers resumed their tasks after last fall's imbroglio they received an increase in wages of 15%, or about the increase which the Dingley law made in the glass schedule of the tariff. Despite this I believe that the profit to the maker of window glass is to-day not less than 40%. When the present agreement expires the workmen will insist upon a further increase in their pay, or I am much mistaken, and this, with the uncertainty as to the effect of the rapidly increasing independent competition to the combine, renders the future decidedly obscure. However, foreign glass can now be laid down in Chicago at prices less than that of American glass and I observe that importations are rapidly increasing, 22,000 boxes coming over last week. Therein is a ray of hope."

[Since Mr. Hayes gave the above interview the 10% rise which he predicted has become a fact.—Ed.]

### Orchids for Florists.

After the cattleyas, the next in importance to the florist, are the laelias, and they are closely allied to each other, the difference being only a botanical one, the pollen masses being in eight masses instead of four, and there are no reasons why the laelias should be treated in any way different from the cattleyas except in individual instances, due to geographical

distribution, and this applies equally to the cattleyas that grow at the extreme limits of latitude or elevation. *Laelias* are, however, much more widely distributed than the cattleyas, there being but one cattleya in Mexico, *C. citrina*, but quite a number of *Laelias*, most of which are valuable to the florist as cut flowers, owing to their long stems and their flowering in midwinter. They are also easily procured at low prices and are, as a rule, easy to cultivate.

It is a great mistake to keep these orchids from the Mexican highlands in a close moist atmosphere with a dense shade on the glass; they are found on the trees at great altitudes; sometimes near the frost line, and always where plenty of sun and air reaches them. We have succeeded in flowering the white forms of *Laelia anceps* as freely as the colored type by placing the plants outdoors in the growing season, suspended in partial shade or where

curely wired on fern fibre they seem quite at home and we have them now in flower with bulbs much larger than ever they made in Mexico. After the flowering season is past it is a mistake to keep the plants dry, as is often recommended, for it is at this time that they make their new roots that go to make up for the loss due to the strain that the flower spikes have put them under and to cause the bulbs to send out strong new growths in spring, and when it is seen that they need new receptacles, it is best done as soon as possible after flowering, as they have the resting period to recover in.

For the other *Laelias* that are of value to the florist we have to go to Brazil, where there are two that are very desirable. The first, *L. purpurata*, being one of the finest orchids known, as well as one of the best to grow and keep healthy. One often meets with fine old specimens of this that have been in collec-

every instance when one of these forms were used, and this has also been the experience of others. *Laelia prastans* is generally regarded as a variety of *L. pumila* and is the best one, while *L. Dayana* is also good, its flowers being smaller but of richer color than the other two. We find that these dwarf *Laelias* grow freely in shallow pans suspended near the light in a cool house in summer and with a little more warmth in winter with the cattleyas. A single flower makes a choice and elegant boutonniere for a gentleman, and we grow them for this especially. E.

#### Ponds and Lakes for Aquatics.

Too often, unfortunately, we may still see ponds of circular or oval shape with banks secured by stone walls or pebbles set in cement concrete that show above the water line. This may do for the horsepond of a farmyard, but it will not do for a water garden. If it is worth our while to make a pond at all it should be also worth our while to pay attention to nature's most simple laws with regard to beauty, and when an artificial pond shows in its shore line curves that could not possibly have been formed by nature the effect is repulsive. When writing of water in the rock garden I mentioned that a pond in most cases should be treated as an expanded streamlet, and the curves of large ponds or lakes give no exception to that rule. A natural pond with a bold projection or promontory on one side will almost invariably show a still bolder recess on the opposite shore, and vice versa. If such projections are covered by vegetation that hides a portion of the water, so that from no point the whole of the surface can be seen, the effect will be all the more picturesque. A good example of this may be seen in the lakes at Birkenhead Park, which, in consequence of this partial obscuring of the water from certain points, appears much larger than it really is.

In the case of a broad stream or river flowing through some meadows within sight of the house, the simplest way to produce a pond or lake would, of course, be to widen the stream or river to the size that would seem most desirable. But if the pond and its banks are intended for a water garden this course would not be the most practical if the flow of water is at all rapid, because, after heavy rains, when the river swells and floods its surroundings, there would not only be a danger of the water plants being carried away, but silt, gravel and river mud would quickly fill up all recesses and thus practically destroy the beauty of the pond and choke the plants. The best plan in such a case is to "tap" the river, conduct the water intended for the supply of the pond some distance away from the original stream, and finally let overflow rejoin the river at a lower level. If the water is first conveyed in pipes, and made to flow in an opposite direction to that of the river, the danger of chokage by mud or silt will be entirely avoided. When laying out some grounds at Great Marlow a few years ago I made a most successful pond in the way just described, by tapping the river Thames. In most cases it may also be advisable to cover the mouth of the pipe by wire netting to keep out water rats and other vermin. There is no reason why water drawn in this way from a river should not, at some little distance from the "tapping place," reappear in the shape of a natural streamlet before filling the pond, and here and there its water-soaked banks



LÆLIA PERRINII.

the force of the sun at midday is broken up by trees, and there is nothing left to be desired in the way the plants grow and flower. We shall place all the *Laelia anceps* outdoors in future early in June, and give them a spray with the hose every evening during warm weather. In the fall they must be brought indoors as soon as cold nights arrive and be placed in an airy house that will be kept at 55 during the winter months, which will insure a good crop of bloom for Christmas time.

7. On the Mexican kinds referred to above there are three that are valuable for florists: *Laelia albida*, *L. autumnalis* and *L. anceps*, all three thriving under the treatment named, but where the white variety of *L. anceps* is grown it is best to give them a little more warmth in winter, as they are said to come from the Pacific coast of Mexico, and they like the warmest end of the house to mature the bulbs and flower stems. *L. albida* is best grown on blocks of fern fibre and suspended at the ends of the house where they may get frequent spray from the hose in hot weather. This kind will not thrive well in pots unless suspended, and this makes considerable labor in watering where a number are grown, but se-

ditions for long periods and they flower regularly each year in early summer, generally in May and June, and are valuable for festivities at that date as the color is pure white with a rich purple lip; there is, however, great variation in the coloring in individual plants and among those of recent importation may be found as fine varieties as were ever introduced. Although this plant comes from southern Brazil, it does not need any more heat than the cattleyas; we find that it grows weak among the cattleyas and is best at the cool end of the house, as the growth is made in winter when there is not much sun and air to mature them. *Laelia crispata* is similar in its needs, and is a useful variety to bloom in summer when summer flowers of a choice quality are wanted.

Mention should also be made of the several dwarf growing forms of *Laelia pumila*, they are so easily grown, require so little space, and the flowers are so large in proportion to the size of the plants, that a few of each are always a paying investment. It should also be mentioned that *L. pumila* offers one of the best seed-bearing parents to hybridizers of all *Laelias* and cattleyas. We have succeeded in getting up seedlings in almost

might become the home of all kinds of most suitable as well as beautiful plants. In like manner the water emerging as overflow from the pond might form a picturesque brook of any desirable length with or without waterfalls before rejoining the river.

In a case like the preceding, where the water supply would be practically unlimited, the comparatively small waste of water through absorption by the banks, and perhaps also by the bottom of the pond, would hardly need comment. But where the supply is scarce and the bottom and sides of the pond are of a porous nature, the latter would have to be either "puddled" or covered with concrete to prevent waste. Concreting on a large scale is always expensive work, and clay puddle, especially on the sides of banks, is very apt to be injured by water rats, to crumble away after a severe frost, or be washed away by the ripples of water moved by wind. Sometimes it so happens that the sub-soil consists at a certain depth of a tough clay which no water could penetrate, but that the soil at the required water level is of so porous a nature that it would not hold water. Naturally the first impulse in such a case would be to excavate the pond to the depth of the natural layer of clay, and then form banks of clay puddle at the sides. But there is a much cheaper and more simple plan. Instead of excavating to the clay, excavate only to a depth sufficient for growing aquatics (say two or three feet), and instead of piling up clay against the sides leave the sides untouched as much as possible, preferring the natural slope of the ground to dip below the water line. To prevent waste percolation surround the whole pond by a trench about eighteen inches wide excavated beyond the depth of the natural clay sub-soil. The whole of this trench should then be filled with clay-puddle to a height extending slightly above the water level, filling up the remainder with ordinary soil, so that the whole is completely hidden. The trench should not be close to the shore line, neither need it follow the curves of the shore, but, as it would be invisible when finished, it might even be perfectly straight in some places if this would be a saving in distance. The advantages of this system are obvious. The water-tight puddle would be situated where it would neither wash nor crumble away. But the greatest advantage is that the ground intervening between the trench and the actual outline of the pond would be continuously soaked, and a natural bog for plants that love the waterside is thus formed without much trouble.

Very frequently a pond most suitable for a water garden can be formed by throwing a dam across a valley traversed by some streamlet. Generally this is effected by a straight or slightly curved wall, which is afterwards covered with soil, turf and plants with an opening from which the overflow water may emerge as a waterfall. As a rule such an opening is left near the middle of the dam and looks most unnatural, because the overflow emerges from what would be the broadest side of the pond. In nature this could scarcely ever occur. If we observe the natural formation of ponds, we find almost invariably that a streamlet becomes gradually wider and wider till a lake-like expanse is formed; it then almost just as gradually contracts, and finally emerges again as a narrow streamlet. If the dam has to be made it would, therefore, be much more natural to have two walls gradually contracting

till the desired outlet or overflow is provided. Any formal edging of stones or any other material around a pond would at once deprive the latter of all natural appearance, however carefully it might have been constructed. The best way of securing the shore line against crumbling and washing is to round off all edges till they form a gentle slope, and then lay down long pieces of good tough turf, which should be continued quite a foot below the water mark, and should be further secured by long sticks driven firmly through them and into the bank.

Islands in ponds should be arranged with due regard to such formations in nature. In natural lakes we find them not often in the middle, but generally just beyond a promontory, where they would justify the idea of having been severed from the mainland by the breaking through of the water, or if they are of a rocky nature by upheavals from the bottom. A circular mound of soil in the middle of the pond generally looks as ugly as can be, and most unnatural — *F. W. Meyer, in The Gardener's Magazine.*

#### Muscari Botryoides Album.

The white grape hyacinth or blue bottle are better known names for this really pretty Easter plant. It was first

forced or grown as a pot plant in this neighborhood by Albert Woltemate, of Germantown. It comes into competition with lilies of the valley, being about the same height when in flower. It bears from eighteen to twenty-five spikes according to the number of plants in a 6-inch pot. It is treated the same way as hyacinths and other like stock, being wintered in a cold frame and requiring only a few days of heat to bring it out. Two spikes are generally produced from a bulb. K.

#### Carnations.

Hybridization is usually considered a matter to be attended to during the winter months, so that the seedlings can be flowered the following summer. If, however, you can possess your soul with enough patience to wait a year before you find out what results you have obtained from your experiments, May is a good month in which to hybridize and produce seed.

There is no time of the year when your carnations are in quite such good shape to produce good pollen and vigorous pistils as this month with the abundance of sunshine and the constant ventilation that is now on the houses. Later in the season the plants will have suffered too much from the heat, and earlier they have had too much artificial treatment.



MUSCARI BOTRYOIDES ALBUM.



ESTABLISHMENT OF WOLF &amp; CO., SAVANNAH, GA.

The bees are the only objectionable feature in May hybridization and they can be easily avoided by selecting your flowers, covering them a day or so before the pollen is ripe with a cap made of tissue paper. This cap can be made by cutting a piece of tissue paper say six inches square and putting it over the flower, bringing the corners down below the petals and slipping a rubber band around it at the base of the flower; this will keep out all insects and yet give plenty of room around the top of the flower.

These caps should be put over both the flowers intended for work a day or so before the pollen is ripe and before the pistils are ready to receive it, so as to make it impossible to have any other pollen than which you want to use come in contact with them. This may seem unnecessary with the pollen bearing plant, but if it is not protected a bee may come along the day the pollen is ripe with some from another plant on his body and drop a portion of it on the stamens you are working from and the result would be a mixture of pollen as complete as if you left the pistils uncovered to be fertilized by the bees themselves.

After you have fertilized the flower, it must be kept covered with the cap until the pollen has taken effect, which will be from one to three days, according to the condition of the plant and the weather. After the pollen has taken effect, and the petals of the flower dry off, it is best to pull them out carefully and leave only the calyx as a protection to the seed pod. This gives the air and light a chance to act to better advantage in the production of the seed.

When the seed pod attains its full growth and begins to turn a yellowish brown, it will be necessary to watch it carefully so that it does not get too ripe and burst or the bulk of your seed will be lost. As soon as the pod begins to open at the top pull it off with a good long stem and dry carefully until the bud opens up and bursts. Then your seed is ready to put away until February, when it should be sown.

There are a few natural laws to bear in mind when you are selecting your flowers for hybridization, and the first and most important of these is the fact that in nine cases out of ten diseased parents will produce diseased seedlings. The next is that high culture, and high culture alone, will bring up the percentage of double flowers produced, and that starving the plant while it is developing the seed will produce brighter colors in the seedlings.

This selection process should be begun

as soon as the pollen has taken effect and the easiest method is to deprive the plant of water gradually until it is growing almost entirely dry, and by the time the seed has ripened it should be almost ready to die. This method of getting results may seem a bit odd to some growers, but if you will try it and note the difference in the proportion of good colors from seed grown in this manner over that grown in the usual way, you will find there is something in it. The seed will not be quite so plump and healthy looking as that grown without starvation, and there may be a few more of them that will not germinate; but all of this is made up in the quality of flowers produced.

ALBERT M. HERR.

#### Southern Development.

Of all the florists who have gained success from a modest start on a restricted capital, none have greater reason for self-complacent retrospect than have Wolf & Co., of Savannah, Ga., who embarked in business in 1895 and who are able to look back upon three years of hard work and wonderful growth in the face of strong competition. Most of their 5,000 feet of glass, shown in the accompanying illustration, is devoted to the culture of roses and carnations.

#### A Good Advertisement.

The accompanying illustration shows an advertisement as used by the American

Rose Co. in street cars. The cards are of varied design and painted by hand in colors. This is a costly form of advertising, but one which has attracted much attention.

#### New York.

IMPROVEMENT IN BUSINESS.—RECEIPTS LIGHTER AND DEMAND BETTER.—HARRY BAYERSDORFER SAILS.—KOFFMAN WILL OPEN A NEW YORK STORE.—LOCAL NOTES.

A slight improvement in the cut flower trade is noticed. The receipts have been steadily decreasing in volume during the past week, and pleasanter weather having come the demand has shown more life than for some time past. Many of the roses coming in are more or less disfigured with mildew, the result of the long period of wet weather. This seriously affects the prices, which are none too good at best. Violets are on the down grade, very few of them being of requisite size. Sweet peas are improving daily. Some growers have adopted the plan of cutting their peas in big branches, 18 to 24 inches long, with abundant foliage and tendrils. Twenty-five such sprays make a grand show in a big vase and bring good money. Yellow flowers seem to be in demand. Big trumpet daffodils of the fancy named kinds and bunches of bright yellow snap-dragons are popular. There are too many pansies in the plant market and prices are away down.

Many McGowan carnations and some of the other varieties have been dying off, from stem rot apparently, with the Long Island growers. Scott seems to be going along all right.

The steam ship Havel sailed for Europe on May 3. This announcement, of itself, would be of no special interest were it not for the fact that the smiling countenance of Mr. Harry Bayersdorfer was seen blooming radiantly among the passengers. Harry goes for "novelties." He has a host of friends who will wish him every success.

E. Koffman will open a depot for his own specialties at 52 West 29th street as soon as necessary alterations are completed—probably about July 1. His avowed intention is to sell for cash only; no money, no flowers.

The Paterson florists have appointed a committee to wait upon the city government and protest against the peddling of plants through the streets by outside parties without paying any license.

A STREET CAR ADVERTISEMENT



RANGE OF GREENHOUSES ERECTED FOR MR. P. BRADLEY, AT HINGHAM, MASS., BY HITCHINGS & CO.

Mrs. I. Fosterman, of Newton, was married to Mr. Chas. Aishmann on Saturday, April 23. Mr. and Mrs. Aishman will reside in Brooklyn.

Robert Simpson will start in business for himself at Clifton, N. J., on the first of July.

Harry A. Siebrecht, Jr., is confined to his home by a severe bronchial trouble.

R. Wenham has removed from 359 Fifth avenue to 432 Fifth avenue.

P. Vos sailed for Holland via England April 30.

#### Philadelphia.

THE QUAKER CITY EXPERIENCES A WEEK OF QUIET.—ROSES IN DEMAND.—APRIL WEATHER.—PLANTING OUT TIME.—NOTES.—THE PEONY SYMPOSIUM POSTPONED UNTIL JUNE.—THE MAY PICNIC.—LITTLE BEAUTY FUCHSIA.

Planting out season has arrived and all bedding plant men are busy. Roses are in good demand, and as the season grows warmer the call for this class of stock promises to be excellent.

April passed out with a chill that gave a fright to growers who had young violets, carnations and other plants set out in the field. Although there was a severe storm of sleet and the mercury touched the freezing point, little damage seems to have been done. All danger now seems to be past.

Business in the stores is gradually dwindling to a summer basis, and customers are leaving orders daily to call for plants to be kept over the summer. Flowers are plentiful enough although the cold spell of last week threatened the crops for the time being. Beauties jumped in price, and those that were begging at from \$1 to \$2 per doz. readily brought from \$3 to \$4. Other kinds of flowers were in better supply, and prices remained

about the same. Sweet peas are now quite plentiful at \$1 to \$1.50 per hundred; carnations at \$1 to \$2. The most popular kinds in this market are McGowan, Scott, Tidal Wave, Portia, Cartledge and Eldorado. Many others have come and gone since these favorites were introduced, but they are still the leaders. Victor and Flora Hill promise to be in favor next year.

George Faulkner, with Jos. Kift & Son, enlisted for the war, and is with his company of the State Fencibles. He is, as far as we have heard, the only soldier of the craft in this city to join in the nation's defense. Two men from the Dreer Nurseries, at Riverton, have volunteered, and no doubt many more will be found in line if another call should be found necessary.

Wm. Scott, of Buffalo, and his son, accompanied by Wm. Christenson, visited us this week. Mr. Scott is the Buffalo Bill of the flower business and is as popular in his sphere as is Col. Cody on the western ranches and among eastern show goers.

The May meeting of the Florists' Club Tuesday evening was quite well attended, the number present attesting the interest taken in the peony, which was the subject for discussion. Mr. Joseph Heacock, who was to read an essay, was, however, unavoidably absent, therefore the peony symposium will be held in June, when there will also be a display of the cut blooms.

The benefit at the Walnut Street Theater on May 11 promises to be very successful as many tickets have been sold, a second allotment having been obtained to supply the demand.

The May picnic is to be held at Wissanoming on the Gun Club grounds, on May 25. A Maypole dance is to be the feature, or one of them, for we hear there are to

be several. There is to be a feast with plenty of all sorts of good things to eat and drink; a shooting contest, games and trials of skill in which all may take part. Tickets are \$1. If it rains on the 25th the picnic will be held on the week following.

Mr. Lonsdale exhibited at the club meeting a few very pretty plants of fuchsia Gracieux. This was raised and sent out from France, but when it reached this country it was re-christened Little Beauty. It is quite dwarf and carries a quantity of flowers with red sepals and blue corolla. K.

#### Boston.

ELEVENTH ANNUAL SUPPER OF THE GARDENERS' AND FLORISTS' CLUB.—A NOTED VISITOR.—THE HAYES AUCTION.—DEATH OF J. F. C. HYDE.—IMPROVEMENT IN TRADE.—SUPPLY AND DEMAND.—PERSONAL MENTION.

A very gratifying improvement in business is noted in all directions. As to the permanency of the recovery from the recent debility differing opinions are expressed, but all are glad to take as much benefit out of the present turn as possible. White carnations have struck a lively gait and there are not enough of them to meet the demand even at the figure of \$3 per hundred for extra good flowers. Violets are rather weak as to demand, but are firm in price when of good quality. Lily of the valley has braced up nicely; so have longiflorum lilies and callas. On the other hand, tulips and daffodils, having reached the outdoor blooming season, are more noticeable as to bulk than value. Smilax continues scarce; those who want it have to pay a good stiff price, and are not expected to make any remarks regarding its length or thickness. The plant trade is approaching its height, and only waits

for a cessation of the present cold, rainy weather. This week will about end the planting season in the nursery business, and seldom is it stretched out over so many weeks as in the present instance.

The eleventh annual supper of the Gardeners' and Florists' Club was held at Horticultural Hall on the evening of May 3, and was a very enjoyable affair. There were nearly 100 in attendance, the majority being young men. Some pretty plants and vases of blooms graced the tables and an orchestra furnished music.

On the head table large vases of the rival scarlet carnations, Wellesley and Bon Ton, blinked defiance at each other and found their reflection in the blushing countenance of President George Anderson as he rose at the conclusion of the feasting and placed A. P. Calder in charge of the post-prandial programme. Mr. Calder was characteristically fluent and with anecdote and well-turned phrases soon had his audience in good humor to listen attentively to the veterans, Fred L. Harris and John Galvin, who were the first called upon. Lawrence Cotter, Warren Ewell and other local lights preceded the guest of the evening, Peter Barr, of Covent Garden, London, the renowned "Narcissus King," who wears the Victorian medal and whose genial countenance and fraternal handshake are an inspiration.

Mr. Barr pleaded inability to make a speech, and asserted that this peculiarity had earned for him at home the title of "Peter the Silent," but he spoke of how much he had enjoyed his sojourn in Boston and referred hopefully to the prospects of a closer unity among the English speaking peoples of the world, while the little American flag which adorned his buttonhole seemed to nestle close, as though it realized that it had discovered another staunch friend.

George Spaulding and Joe Mahan were the musical stars of the occasion and acquitted themselves with great credit. It is now in order for the young men who are not members of the club to come into line and give their allegiance to the organization the existence of which made it possible for them to enjoy so pleasant and profitable an evening.

The auction sale of plants at Oakmont, the E. B. Hayes' estate, which took place last Saturday, did not develop much competition and prices realized were very low. The big rhododendrons which have received so much admiration when in bloom under the big tent every spring were disposed of with difficulty.

T. C. Hyde, who was president of the Massachusetts Horticultural Society from 1867 to 1879, and always an active supporter of that organization, died at his home in Newton, on May 2, aged 75 years. Mr. Hyde was the first mayor of the city of Newton.

Jackson Dawson is suffering from a severe cold and unable to leave his house.

#### Chicago.

VERY DULL WEEK. PRICES LOW AND MARKET DISPERSED. DEATH OF HERMAN MATTI. PERSONAL GILS AND VALETTERS.

The past week has been one of decided dullness all along the line. The cloudy weather which we have experienced, together with the war excitement, general moving and house cleaning, have combined to depress the retail flower trade to a point seldom if ever reached at this season of the year's gone by. Before the cold, damp weather set in there was a good demand for small shrubs and the early spring bedding plants, and pansies

and daisies sold remarkably well, but the bad weather has materially reduced this class of trade.

Many flowers are being shipped out of the city, but at greatly reduced prices. There is a superabundance of all kinds of stock. Among roses Meteor is least plentiful, with Bride following in this regard. All short-stemmed Beauties are sold at some price, while extra select long stemmed stock will not go at \$1.50 to \$2 per dozen. Longiflorum lilies bring from \$2 to \$5 per 100; out-door grown lily of the valley fetch from \$1 to \$2 per hundred; common roses command from \$1 to \$4 per 100 for extra select stock; carnations bring from 40 cents to \$2 per 100, with a few extra selects commanding \$3.

E. H. Hunt was at his store Wednesday for the first time after several weeks illness.

Flint Kennicott returned to-day from West Baden, Ind., and O. P. Bassett will reach home from the same place on Sunday.

Herman Matti, a well-known North Side florist, formerly in partnership with Christ Muno, but lately with Victor Bros., died suddenly last Saturday evening, of heart disease. He leaves a wife and one child, who have the sympathy of many friends.

L. H. Wise was in the city on Wednesday on his way home from Denver, Col., where for two years he has grown carnations for the Park Floral Co., to Newcastle, Pa.

Harry A. Stollery, grower for Stollery Bros., has taken a similar position with J. F. McDonough, of Newark, N. J.

Among the Chicago visitors recently were E. G. Hill, of Richmond, Ind.; N. J. Burt, of Burlington, Ia.; Mr. Boddington, of Lucas & Boddington Co., of New York, and Jacobus Keur, of the firm of C. Keur & Sons, bulb growers and nurserymen, of Hillegom, near Haarlem, Holland.

The wife of Frank Felke died Tuesday, May 3, leaving three small children. Frank is the youngest son of John and Mary Felke, and is with them out at Wilmette.

A. L. Randall went to West Baden, Ind., on Wednesday for a two weeks' rest.

#### An Ever-Blooming Chrysanthemum.

Schlegel's ever-blooming white chrysanthemum, as shown in the illustration, was grown by Robert Laurie, gardener to Cornelius Vanderbilt, at Newport, R. I. These flowers measure from four to four and one half inches in diameter, and are from cuttings put in during the first week in February. The plants have bloomed ten weeks from the time the cuttings were started.

Mr. Laurie has made a trial of these chrysanthemums for the past two years, and says they are of easy culture and can be had in bloom at any season of the year, for once the flowers are removed the plants again branch from the bottom and bloom.

J. J. B.



SCHLEGEL'S EVER-BLOOMING CHRYSANTHEMUM.

**THE AMERICAN FLORIST**

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The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

We have received the report of the seventh annual meeting of the American Carnation Society, held in Chicago February 17 and 18.

A BUFF COLORED NARCISSUS was lately given an award of merit by the Royal Horticultural Society of England. This is quite a break in color among these flowers and may be the beginning of a new race.

MESSRS. HITCHINGS & Co., horticultural architects and builders, of New York, have under construction at the present time no less than twenty commercial or private greenhouses, located in nearly as many cities.

LORD & BURNHAM COMPANY, horticultural architects and builders, of Irvington-on-Hudson, now have in course of construction a score of greenhouses and conservatories scattered from Massachusetts and New Jersey to Duluth, Minn., and Moscow, Idaho.

**Cut Flower Price Lists Received.**

W. A. McFadden, Cincinnati; H. L. Sunderbruch, Co., Cincinnati; Holton & Hunkel Co., Milwaukee; Bassett & Washburn, Chicago; Wm. F. Kasting, Buffalo.

**Grafting Chrysanthemums.**

An article in the *Gardening World* (English) gives an account of an interesting experiment in grafting. With an idea of changing the character of the flowers, the top of a plant of one variety was cut off and the bottom grafted into a plant of another kind, both being planted in one pot, the result being to produce a stem of one variety supported by short stems of two varieties, and nourished by two distinct sets of roots.

The experiment, so far as it influenced the character of the flowers was a failure, but it was noted that the plant was much strengthened and the size of flowers increased. It seems quite likely that this process may prove of value in growing exhibition blooms, especially of weak growing varieties.

**Shading Carnations and Roses.**

ED. AM. FLORIST: You would oblige me by advising, in the columns of the AMERICAN FLORIST, as to the best material for shading rose and carnation houses, also when and how to apply same. X. Y. Z.

Until last season we always used white lead mixed with coal oil, but requiring a large quantity we found this to be rather expensive. We are now using a mixture of whitening with a little linseed oil added and mixed with coal oil. This fills the bill, but care must be taken not to get too much linseed oil in the mixture or there will be trouble in removing

it. It is best to apply a little first; allow it to dry and if a sharp rub or two brings it off readily it is right for use.

Carnations should have been shaded a month or more past. An 8-inch strip down the center of each pane of glass will be ample, but it should not be too dense as the idea is to break the glare of the sun's rays and at the same time allow the plants as much light as possible. Light will never harm carnations where plenty of ventilation is available.

In regard to shading rosehouses: With the weather we have been having so far this season there has been no necessity for shading. The only period of growth in which roses need shading is with old plants in mid-summer, when you want to prolong the crop. Shading should be removed as soon as young stock is started, and if any leaves are apt to become burned through blurs in the glass, go over the roof with a brush and daub the troublesome spots. As it is in summer and fall that we have to put the strength into our plants, we find clear sunlight to be their greatest requirement, the temperature being regulated by ventilation and syringing.

C. W. JOHNSON.

**Greenhouse Building.**

Quebec, Can.—J. T. Ross, conservatory.  
Duluth, Minn.—Geo. Spencer, large addition.

Cleveland, O.—C. Aul, greenhouse 20x70.

Newark, N. J.—W. Kraft, one rose house.

Nyaek, N. Y.—Depew Bros., one rose house.

Pittsburg, Pa.—H. C. Frick, large extension.

Omaha, Neb.—George A. Joslyn, large palm house.

West Hoboken, N. J.—E. G. Asmus, six rose houses.

Dover, N. Y.—Mrs. H. D. Sherman, one plant house.

Albany, N. Y.—Mrs. Dean Sage, one plant house.

New York, N. Y.—F. L. Loring, one conservatory.

Westville, Conn.—Carl Rosien, rose house 20x200.

Milwaukee, Wis.—J. Breuss, one commercial house.

Summit, N. J.—Lager & Hurrell, orchid house 25x150.

Flushing, N. Y.—Thorne & Co., rose house 54x150.

Passaic, N. J.—P. Bannigan, four commercial houses.

Muncie, Ind.—Jesse Carnes, office and carnation house.

Plainfield, N. J.—C. M. McCutcheon, one plant house.

Northampton, Mass.—H. W. Field, one commercial house.

Lewiston, Me.—Ernest Saunders, one commercial house.

Northboro, Mass.—H. A. Cook, one commercial house.

Guelph, Ont., Can.—A. W. Alexander, one conservatory.

Dayton, O.—National Soldiers Home, palm house 50x100.

Youngstown, O.—E. Hippard, carnation house 35x100.

Woodside, N. Y.—Victor Dorval, carnation house 25x108.

Hillside, Pa.—Adolph Fahrenwold, three houses 20x120.

Short Hills, N. J.—Thomas Jones, carnation house 18x100.

Seabright, N. J.—H. L. Terrell, range of palm and greenhouses.

Stoughton, Mass.—F. L. Rumney, commercial house 25x150.

West Derry, N. H.—Mrs. L. F. Cullen, one commercial house.

West Haven, Conn.—Thomas Pattison, carnation house 20x65.

Tuxedo Park, N. Y.—C. B. Alexander, greenhouse and graperly.

Westhampton, N. Y.—W. F. Jagger, two carnation houses 18x100.

Lancaster, Pa.—Landis & Co., 10,000 feet of glass for carnations.

Wissahickon Heights, Pa.—C. W. Henry, large private conservatory.

Jewett City, Conn.—A. A. Young, Jr., one carnation house 20x65.

Germantown, Pa.—J. W. Young, two commercial houses, 21x100.

Toledo, O.—Crane Brothers, four commercial houses, each 30x250.

Lancaster, Mass.—E. V. R. Thayer, graperly and nectarine house.

North Easton, Mass.—John McFarland, one commercial house 27x175.

Fairfield, Conn.—O. G. Jennings, large palm house, potting shed and office.

Riverton, Pa.—H. A. Dreer, eight modern houses to take place of old block.

Philadelphia, Pa.—Myers & Sarntman, house 24x170 for American Beauties.

Braintree, Mass.—G. H. Arnold, one three-quarter span greenhouse 35x70.

Leavenworth, Kas.—Kirkpatrick Bros., rebuilding greenhouses destroyed by fire.

Milwaukee, Wis.—Mitchell park, one conservatory, from plans of H. C. Koch & Co.

Chestnut Hill, Mass.—H. Dumaresq, graperly, nectarine house and violet house.

Moscow, Idaho.—University of Idaho, large greenhouse for experimental purposes.

Bridgeport, Conn.—Samuel Swan, one conservatory; T. W. Weathered's Son builder.

Glen Cove, N. Y.—F. G. Mense, commercial house 20x150; two violet houses 10x150.

Linden, N. J.—Walter Luttgren, one three-quarter span and two even span greenhouses.

Madison, N. J.—Henry Hentz, Jr., five rose houses 20x175; one propagating house 9x175.

New Haven, Conn.—S. T. Bradley, carnation house 16x70. J. E. Hubinger, one conservatory.

Newburyport, Mass.—E. W. Pearson, one commercial house. J. J. Comley, two commercial houses.

Flatbush, N. Y.—Dailedouze Bros., two carnation houses 22x200. Alfred Demusy, one greenhouse 20x133.

Elmira, N. Y.—Fred La France, 1,000 feet additional glass. Grove P. Rawson, two violet houses 200 feet long.

Bloomington, Ill.—Bloomington Cemetery Association, greenhouse. W. T. Hempstead, commercial house 20x60.

Ashtabula, O.—Dunbar & Hopkins, two greenhouses 24x125. Ashtabula Greenhouse Co., two greenhouses 22x140.

Spuyten Duyvel, N. Y.—Thomas Douglas, rose house and graperly, each 20x75; T. W. Weathered's Son builder.

Sharon Hill, Pa.—Robert Scott & Son, four carnation houses 21x200 with 6-foot propagation house beside each. F. H. Bull, range of greenhouses.

North Easton, Mass.—Onkes Ames, one conservatory consisting of center house for palms, two wings for orchids and laboratory for experiments.

Providence, R. I.—Fruit Hill Greenhouse Co., two commercial houses each 400 feet long. Butterick Patten Co., two greenhouses, each 200 feet long.

Worcester, Mass.—H. F. A. Lange, 10,000 feet of commercial houses. H. F. Littlefield, one commercial house. Denholme, McKay & Co., one conservatory.

Chicago, Ill.—Wietor Bros., five rose houses 30x120. Julius Ristow, two rose houses 21x150. Herman Bauske, five rose houses 21x260. Magnuson & Pearson, one greenhouse 20x125. George Reinberg, six houses 21x265 for American Beauties. Peter Reinberg, six greenhouses 21x265.

Louisville, Ky.—C. H. Kunzman, two rose houses. Nanz & Neuner, rebuilding three rose houses, one 24x100 and two 19x100; also new range of violet houses. George Schultz, rose house 20x100. J. E. Marrett, four greenhouses 20x100. Coenen & Bohman, new forcing houses. F. Walker & Co., two forcing houses 20x150. Anchorage Rose Co., house 19x200.

#### Violet Culture.

In my last article on violets I described our method of field culture and benching. A few brief notes on the details of our method of growing the plants where they are to bloom should now follow in order to make my notes complete.

We grow only 1,000 plants in this way. The two houses in which we plant this number are 11x80, of equal span and built together without partition. The roofs are of common hotbed sash with 8x10 lights facing the east and west. The sashes on the west side are six feet long, while those on the east side are only five feet long, leaving a space one foot wide the whole length of the houses, which is covered with pine boards six feet long hung on hinges and used as ventilators. Both of these houses are heated by two flow and two return 4-inch hot water pipes, connected with the general heating system and controlled by valves as needed.

The solid bed is 8x75 and is situated partly in both of these houses, the center of it being directly under the gutter, extending four feet in each house, leaving a walk and a bench on the west side of one house and on the east side of the other. The last week in May or the first week in June we prepare this bed by removing enough of the old soil so that we have a depth of six inches to be refilled with fresh loam, in which has been previously incorporated a sufficient quantity of well rotted manure. We either allow this loam to settle for a few days or tamp it with our feet before planting. The bed is then laid out in five rows in each house with 100 plants in each row, giving us 1,000 plants in equal distances of about 8x8 inches.

The plants that we use for this purpose have been raised for the last two years from cuttings selected from plants that had a tendency to make only a very few runners, and have been grown in the same manner as described in my former article. As soon as they have established themselves we remove the sashes from the east side of the houses, the sashes on the west side being kept on all summer and shaded. This practice of leaving the sashes on the west side has given the best results, but why I am not prepared to say, and while I have a theory and the facts seem to bear me out as to the correctness of my conclusions, I hesitate to state the same for fear that I may be wrong.

The summer beds and runners are picked off and the ground stirred up after each watering, which keeps the plants free from weeds. This is followed up until the plants cover and completely shade the ground. We do not feed the plants

during the summer, the fertility of the loam being sufficient for a healthy growth; but as soon as the blooming season arrives they are watered with liquid manure. The sashes are replaced when the benches have been planted, and the houses are regularly attended as to ventilating, watering and temperature.

This mode of culture has not given us any more or better flowers than the one described in my former article, while the cost of production is certainly higher. I cannot help but urge upon every grower to test for himself the general principles and different methods of growing violets. The question of the best method can only be solved locally, as the general results are conflicting in the different parts of the country, and I repeat that the best way to grow violets is the one where the cost of production does not exceed the price of the product, but leaves the largest margin for profits.

CHAUTAQUA.

#### A Drummer's T-waddle.

At Utica, N. Y., recently much pleasure was mingled with our business by the cordial character of the florists of that interesting city; genial Peter Crowe, with the same kindly greeting as of yore, had his latch string out and interesting things to show us about his well kept establishment. Of more than ordinary interest to the florist were some plants of *Adiantum cuneatum* Bardii, the original of which Mr. Crowe found growing on the wall of his fernery.

This is a most distinct form, with stems 20 to 26 inches long, so firm and wiry as to need no "stemming" in using for designs, the fronds of a deeper and richer green and fully as graceful as those of *A. cuneatum*; for use with long stemmed roses it is especially valuable; quantities of it are shipped weekly to Boston, New York and Syracuse; but Mr. Crowe's main object is to work up a stock for dissemination among florists as soon as ready, and we know the craft is waiting for it.

C. F. Seitzer had a kindly greeting, and sensibly attested his appreciation of the AMERICAN FLORIST by flattering words and a subscription when he learned that he was the only one in Utica out of the fold. F. E. Shaw, in his tasty store, felt at peace with all mankind, and was rubbing his hands with satisfaction at the present trade and future prospects. "No pent up Utica can restrain his powers" as one of the progressive florists of the east. J. C. Spencer was industriously disposing of orders crowding upon him, but he had time to treat us well. Humorous Frank Baker from his throne a seat on the counter—regaled us with his witticisms, and enriched our experience very pleasantly, not forgetting a little order to "let us down easily," nor to pronounce his benediction on us as we went forth again on our everlasting round.

At Rome, N. Y., we met C. B. Humphrey, at his snug and tidy greenhouses, congratulating himself on the completion of a gas well on his premises, so that now a coal bill hath no terrors for him, as gas in sufficient volume is at hand to supply fuel for heating his place. E. J. Byam, at the Library Greenhouses, recently built, was full of interest in his new business, and already has all he can attend to. Mr. Hughes, superintendent for Mrs. Morris E. Jones, is carrying on for her a most successful business, and appearances of well-being and stock attest his skillful and careful management.

At Syracuse, N. Y., we found P. R.

Quinlan full of cares, and in that wrapt condition indicative of a man who has more than one iron in the fire; but Mr. Quinlan does not wear the clouded brow which many busy people have, and has always a gentlemanly and good-sense greeting for callers who know how to talk business without useless and common-place verbiage. Modest "Bobby" Bard superintends Mr. Quinlan's greenhouses with remarkable efficiency, and besides knows how to cheer and entertain the pilgrim who is so fortunate as to meet him; the craft, also, is much indebted to "Bobby" in more ways than one, although you could not get him to say it. At Henry Burt's we found the proprietor busy, but with cordiality to spare, and he more than went out of his way to make our hurried visit agreeable. At his attractive store, his assistants were busy and trade lively.

Jumping to Buffalo we found Wm. Scott in the throes of removal to his new location at 546 Main street, on the right side of the street, and he gets on the right side of his customers also by this improvement in space and facilities. Scott's purpose in life is ever to move onward and upward and to become stronger—indeed there is nothing too strong for him—and while he indulges in gentle facetiousness regarding the guileless drummer we forgive him for he always has a drop of consolation, a cheery greeting and a plum of an order for every one who comes along. His place at Corfu suburb was started to grow the excess of stock which this practice yearly loads him up with, but like the darkies' gig of 4-11-44, which comes out once a year, Scott hits it with these plays and the blessings have returned tenfold.

Wm. Buechi has started a Holland on a small scale at his place out on Genesee street, growing hyacinths, tulips, narcissus, lily of the valley, etc. We believe William is arranging to introduce general bulb growing into this country. Baumer Bros., a new firm of florists, have started at Pine Ridge, having purchased a good sized place, erected four new greenhouses and a fifth one going up next month. One of the Messrs. Baumer has worked 21 years for Geo. Urban, and if the same skill and industry follows the firm which characterized Mr. Baumer's long apprenticeship they are bound to succeed.

We have been asked by several florists who want to grow the Crimson Rambler rose for next Easter how to manage for that end. Verbally, we have explained what we know, and for the benefit of those who have not succeeded with this plant, we advise to start good plants now in 6 inch to 8-inch pots, to grow through the summer, cutting back all but four or five shoots, ripening off the stock October 15 to November 1. Starting plants again about ten weeks before wanted in bloom (Easter Sunday occurs April 2 next year), grow for the first two weeks in a temperature of 40 and the balance of their season at 50 to 55°. If good plants can not now be obtained from American nurserymen, say good strong 4-inch, or better still, dormant nursery-grown plants, secure them early in November, pot at once and keep in a cool frame until time to start; these plants require more cutting back than they do by the former method, say one-third of their height, but are grown, of course, during the ten weeks the same as the others. These directions followed out, with mildew and vermin looked after, will afford flowering plants at the proper season.

EDDY.

Buffalo.



**Milwaukee.**

**GEORGE VOLK'S SAD CASE.**—DEPARTMENT STORE METHODS OF ROSE SELLING.—ROSE SCRATCHES AND OTHER NOTES.

Geo. Volk, who has been ill for some time, became violent last Thursday and was taken to an asylum for treatment. He has been suffering from indigestion for a long time and that, with insomnia, caused largely by over-work, destroyed his nervous system. Mr. Volk's business has been carried on in connection with J. M. Fox's grocery store, the arrangement being something on the order of the department store. Mr. Volk furnished the stock and Mr. Fox did the selling. It is to be hoped that Mr. Volk will recover shortly.

Several florists are suffering with sore hands, caused by scratches from roses, which it seems are poisonous. The scratches become inflamed and fester, in some cases resulting in blood poisoning. The same trouble occurred here a few years ago.

The weather has been cool and damp for this time of year, but appears quite favorable for the perfect development of the forsythia. They are completely covered with the large yellow bells and are particularly conspicuous in yards where the house is of red brick.

Narcissus princeps has proven a successful crop for outside growing. Those planted in south exposures come earliest. The double varieties are not popular.

Flowers have not been plentiful lately and living prices have prevailed.

Gimball Bros., the largest department store, had a sale of imported roses last week. It was two-year, grafted stock and sold at 15 cents, two for 25 cents, or \$1.25 per dozen. The store furnished printed directions for planting. They must have sold more plants in two days than all the local florists handle in a year, and florists have more bother and lose more time in dealing with a customer who purchases one dozen than Gimball Bros. had with the whole business.

The preparations for the June flower carnival are still talked about in the local papers, but we hear of no preparations being made by florists.

The Milwaukee Florists' Club is in a dormant condition. There has not been a meeting in four months. C. B. W.

**Rochester, N. Y.**

An unusually heavy demand in funeral work was the principal feature for the week past; the very abundant supply of flowers in the market was none too great, especially in white. Everything in this line was readily disposed of, but prices have been, and are yet, rather low. White flowers are likely to be short in supply for a week or so and prices may go up if the demand should continue. The mild, sunny weather brings out roses and carnations very fast, therefore it is not expected that a rise would be enduring.

Florists are busy planting out their carnations and violets. The ground has been in fine condition for several weeks and is kept in shape by an occasional light rain, insuring a good start to the little plants. Even those which are planted out from flats have not suffered in the least, for we have had no hot or bright days nor drying winds so far.

The plant business continues good. A few azaleas are yet to be seen in the store windows. So are kalmias and rhododendrons, though the hydrangeas are the plants which, at present, sell best of all. Bedding plants are now offered in variety, and many of the grocery stores

keep them on hand. Prices are ridiculously low, and there is but little profit in them.

J. W. Keller is now settling up his accounts, intending to leave the commission business. He is the only wholesale florist in town and is very popular among the boys, but is, perhaps, a little too big-hearted for this peculiar branch of the business. J. R. K.

**WINCHESTER, IND.**—George St. Meyer has sold his greenhouses and will join the army to fight the Spanish.

**BERKELEY, CAL.**—The Berkeley Floral Society's annual spring flower show was held April 28 to 30 and was the most successful on record. The University of California exhibited numerous rare plants and flowers from its gardens and greenhouses, but the special feature was the display by George Tyler, of Alameda, Cal., of 275 varieties of pelargoniums. The show was in charge of W. C. Blasdale, W. H. Smythe, Col. Greenleaf and Mrs. W. S. Wattle.

**SITUATIONS, WANTS, FOR SALE.**

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By married man on private place; well posted on indoor and outdoor culture; 30 years' experience. Good references. Address Box 231, Lake Forest, Ill.

**SITUATION WANTED**—By English florist; grower fine roses; carnations, mums, violets, etc.; disengaged; 20 years' experience, best references. W. G., Box 547, Alliance, O.

**SITUATION WANTED**—In commercial place by single man, age 30; grower of roses, carnations, mums, violets, valley and general stock. References. FREDERICK HILL 207 W. Seneca St., Oswego, N. Y.

**SITUATION WANTED**—By experienced and successful rose, carnation and violet grower and all choice florist stock. Wages moderate; married. In or around Chicago. Address J. P., care American Florist.

**SITUATION WANTED**—By a first class grower of roses, mums, carnations, violets, tomatoes, cucumbers and other plants. Best references; married, no children. 7 Bitnerville, Lancaster City, Pa.

**SITUATION WANTED**—By a florist of executive ability and references in both inside or outside work, propagating, etc., who desires to make a change in position, either private or commercial. Address B. MEIER, Sewickley, Allegheny Co., Pa.

**SITUATION WANTED**—By experienced florist, married (no children), middle age; either private or commercial place; understand raising general stock, greenhouse bolting and steam fitting. Address FLORIST, 5739 Easton Ave., St. Louis, Mo.

**WANTED**—Greenhouses to rent by responsible florist; country town preferred. Address FLORA, care American Florist.

**WANTED**—Catalogues of seeds and florists' supplements. D. MOSKOVSKY, S. A., Djhely, Hungary.

**WANTED**—First class grower to take charge of a section of rosehouses. Address WIETOR BROS., 51 Wabash Ave., Chicago.

**WANTED AT ONCE**—An all-round, good florist, single; \$18 to \$20 per month, with board and room. JOHN D. BIRSCH, Elgin, Ill.

**WANTED**—Three or four first class men for working in palms and stove plants. Wages no object to right man. Send copy of references. Address S. P. H., care American Florist.

**WANTED AT ONCE**—Good florist for general greenhouse work. Wages \$20 per month with board, and in case when satisfactory. HILLSDALE FLORAL PARK, Hillsdale, Mich.

**WANTED**—Photographs of gardens and plans; also specimen plants hardy and otherwise. Send price and particulars to BURTON, care W. J. Stewart, 6 Bromfield St., Boston.

**WANTED**—As working foreman, a good rose grower on commercial place near Philadelphia, Pa.; must be sober, reliable and capable of taking charge. Wages \$50 a month. References. Address A., care American Florist.

**WANTED AT ONCE**—Man for general gardening, especially understanding care of lawns, shrubbery and putting out bedding plants. Young man preferred. Address E. L. B., P. O. Box 101, Northeast Harbor, Me.

**WANTED**—An experienced propagator and plantsman. One accustomed to hard and soft wood plants, where a great many are grown for a catalogue trade; must be a hustler; no drinking man wanted. Apply with references to JAMES W. PAUL, Foreman for L. L. May & Co., St. Paul, Minn.

**WANTED**—A good rose, carnation and violet grower as a working man to take charge of a commercial place; to a reliable, steady man, permanent position; married man, small family, age 25 to 35, experienced. Send references, stating wages, with house. Address L., 256 Main St., Poughkeepsie, N. Y.

**FOR RENT**—For greenhouse purposes, 32,700 square feet on Michigan Ave. Long lease and low rental. Room 922, 184 La Salle St., Chicago.

**FOR SALE**—Greenhouses on principal street in the city. For particulars apply to J. H. KEBSTOCK, 584 Main St., Buffalo, N. Y.

**FOR SALE**—One Hitchhogs boiler No. 16 in fair order. Will be sold low. THE FLORAL EXCHANGE, 614 Chestnut St., Phila.

**FOR SALE**—Florist's single covered wagon; height about 5 feet, width about 4 feet, length about 7½ feet; built to order, costing \$250. Used but 2 years. Will be sold cheap for cash. VAUGHAN'S SEED STORE, Box 488, Chicago.

**FOR SALE**—The greenhouse establishment of Schiller & Kuske, formerly Schiller & Mallander, is offered for sale at a great sacrifice; \$6000 will buy 2 1/2-20 acres of valuable ground, 25 greenhouses, comprising 56,000 square feet of glass; wells, 2 nice dwelling houses, sheds, etc., located in the village of Niles Center, about 12 miles from the heart of Chicago; 1½ miles to depot. Terms, \$3500 cash, balance on time; investigate. Address correspondence to Pochlmann Bros., Morton Grove Cook Co., Ill., or Herman Schiller, 820 W. Madison St., Chicago.

**WANTED TO BUY OR LEASE.**

About 5 acres of land with glass and house within 10 miles of Boston. The land must be good rich loam; on a main line preferred. Particulars to

F. BRUNTON & CO., 136 Boylston St., Boston.

**FOR SALE.**

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write

A. LEUBNER, Wausau, Wis.

**SITUATION WANTED**

by florist and gardener; private or comme clal place; near Boston preferred. Ten years' thorough experience in growing roses, carnations, violets and general florists' stock. Four years steady at present place as foreman; good maker-up and seller. German, single, 25 years old; 7 years in America. Honest, sober and steady. Best of references. Good wages expected. Ready May 3d. Address H. S., care Am. Florist.

**WANTED**

**PARTNER** with \$80, in an established business of 30,000 feet of glass; one who thoroughly understands raising roses, carnations, palms and all kinds of bedding plants. Married and middle aged man preferred. The establishment is in the principal part of the city and doing a very good business; good chance for the right man. Address C. E. T., care American Florist.

**THE JORDAN FLORAL CO.**

OF ST. LOUIS

Offer for sale their greenhouses, 20 in number, with complete heating plant, covering about 3 acres of ground, with all stock and good will of the business; will lease ground on fair rental value long as wanted. Established trade for over 35 years; this is an opportunity of a life time to buy a good established business. Also have a large retail store opposite the post office. Apply to

Leon L. Hull Real Estate Co.

804 Chestnut St., ST. LOUIS, MO.

**FOR SALE OR RENT VERY CHEAP.**

I offer for sale or rent my undivided half interest of the real estate of the greenhouse property formerly known as Schiller & Mallander situated in the village of Niles Center, about 12 miles from business center of Chicago and 1½ miles from Morton Grove R. R. Depot. The property consists of 25 greenhouses, 2 dwelling houses, barns, wells and necessary sheds on 2 1/2-20 acres of land. Investigate. Price for undivided half, \$4,500; terms \$1,000 cash, balance payable in seven yearly installments, secured by mortgage notes bearing 6 per cent. interest. Or will sell to lease to some responsible party for a term of years at an annual rental of \$4,000, giving option to lessee to buy my interest for above stated price, provided that said lessee will make repairs the first year to the extent of \$1,000. Will acquire deed to property May 18. Address

MRS. B. KUSKE,

Care Pochlmann Bros., Morton Grove, Cook Co., Ill.

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
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**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

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**WHOLESALE FLORIST.**  
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 E. RANDOLPH ST.  
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 WHOLESALE CUT FLOWERS  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE. CHICAGO.

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 WHOLESALE  
**COMMISSION FLORIST,**  
 51 WABASH AVENUE,  
 Consignments Solicited. CHICAGO.  
 Prompt attention to shipping orders.

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 Wholesale Cut Flowers  
 AND FLORISTS' SUPPLIES.  
 Agents for the Hinsdale Rose Co. Special attention  
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 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

Mention the AMERICAN FLORIST when  
 corresponding with an advertiser.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us.  
**WIPE DESIGNS: A Full Line.** Write us for  
 our illustrated Catalogue.

**Wholesale Flower Markets**

CHICAGO, May 6.

Roses, Beauties	per doz.	.75@2.00
" Brides		1.00@ 4.00
" Meteors, Bridesmaids, Kaiserin		1.00@ 4.00
" Gontiers, Perles		1.00@ 3.00
" La France, Testout		2.00@ 4.00
Carnations, common		.50@ 1.50
" fancy		2.00@ 3.00
Violets		.40@ .75
Narcissus Poeticus		.50
Harrison, Callas		2.00@ 5.00
Lily of the valley		1.00@ 3.00
Tulips		1.00@ 4.00
Sweet peas		.50@ 1.00
Gladiah		5.00@ 8.00
Adiantum		.50@ 1.00
Sallax		10.00@15.00
Asparagus		30.00@75.00
Pansies		.50

**Bassett & Washburn's  
 ROSE PLANTS**

We have an extra selected stock of the following  
 Rose Plants. Will guarantee them to  
 be as fine as any grown.

American Beauty	2 1/2 in. pot.	\$5.00	\$50.00
Brides	"	3.00	25.00
Bridesmaids	"	3.00	25.00
Kaiserin	"	3.50	30.00
President Carnot	"	3.50	30.00

**BASSETT & WASHBURN,**  
 Store: 88 Wabash Avenue, CHICAGO, ILL.  
 Long Distance Phone Main 223.  
 Greenhouse and Residence, Hinsdale, Ill.  
 Long Distance Phone No. 10.

**ILLINOIS CUT FLOWER CO.**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**A. L. RANDALL**  
 Wholesale Florist

Don't Forget that we are at 4 Wash-  
 ington St., Chicago.  
 Write for special quotations on large orders.

**Ford Bros...**  
 Wholesale Florists  
 111 West 30th Street, NEW YORK.  
 Consignments Solicited. Telephone, 260 38th St.

**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1475 38th St.

**THE NEW YORK CUT FLOWER CO.**  
 119 and 121 West 23d Street,  
 112 and 114 West 24th Street,  
 Telephone 733-18th. NEW YORK.  
 CONSIGNMENTS SOLICITED.  
 Special Attention Given to Shipping Orders.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of  
**CUT FLOWERS,**  
 51 WABASH AVENUE,  
 CHICAGO.  
 HEADQUARTERS FOR AMERICAN BEAUTIES.

**REINBERG BROS.**  
 WHOLESALE GROWERS OF  
**...CUT FLOWERS...**

600,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of  
 Roses and Carnations. We Are Headquarters for fine American Beauties. Give us a trial and  
 convince yourself.

**ROOTED ROSE CUTTINGS**

Plants and cuttings sent by express at plant  
 rates (20 per cent less than M. S. rates).

	Per 100	Per 1000
AM BEAUTIES	\$2.50	\$20.00
LA FRANCE	1.50	12.50
BRIDESMAID	1.50	12.50

**ROSE PLANTS**

out of 2 1/2 inch pots. per 100 per 1000

American Beauty	\$5.00	\$45.00
Meteor	3.00	25.00
Bride	2.50	22.50
Bridesmaid	2.50	22.50
La France	2.50	22.50
Kaiserin	2.50	22.50
Dele Schreicht	2.50	22.50
Sallax plants	2.00	15.00

**CARNATION CUTTINGS**

OUT OF BLACK SOIL.

	per 100	per 1000
Wm Scott	\$2.50	\$20.00
Metlowan	2.50	20.00
Koldnoor	2.50	20.00
Daybreak	2.50	20.00
Lizelle Gilbert	2.50	20.00
Emma W. cher	2.50	20.00
Go d'Hech	2.50	20.00
Bridesmaid	2.50	20.00
Amblee	5.00	40.00
Flora 1101	5.00	40.00
Mayor Pluzee	5.00	40.00

**REINBERG BROS., 51 WABASH AVENUE, CHICAGO.**

**M. A. HART,**  
 Commission DEALER IN Cut Flowers,  
 44 WEST 29TH STREET,  
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 THE BEST MARKET IN NEW YORK.  
 'Phone 1307 38th St.

**TRAENDLY & SCHENCK,**  
 Wholesale Florists,  
 Control the stock of many celebrated growers and  
 are prepared to quote prices on First Grade  
 Cut Flowers. All varieties.  
 38 West 28th St., and Cut Flower Exchange,  
 Tel. 961 18th Street. NEW YORK CITY.

**FRED. EHRET,**  
 Wholesale Florist,  
 No. 1403 Fairmount Avenue,  
 Telephone, Long Distance. PHILADELPHIA.

**Wholesale Flower Markets**

NEW YORK, May 4.

Roses Beutles, Hybrid	4.00@12.00
" Jacqs	4.00@ 8.00
" Bridesmaids, Testout, Carnot	.50@ 6.00
" Morgans, Meteor	1.50@ 4.00
Carnations	1.00@ 2.50
Lily of the valley	1.00@ 2.00
Sweet peas, per 100 bunches	8.00@10.00
Daffodils, Tulps (outdoor)	.50@ 1.00
Violets	.15@ .50
Harrill, Callas	2.50@ 3.00
Smilax	12.00@ 15.00
Asparagus	30.00@ 50.00

BOSTON, May 4

Roses, Beutles, Brunners	5.00@15.00
" Morgan, Meteor	1.00@ 4.00
" Brides, Bridesmaids, Carnot	2.00@ 6.00
Carnations	1.50@ 2.00
" fancy	2.00@ 3.00
Lily of the valley	2.00@ 3.00
Daffodils, Tulps (outside)	.50@ 1.00
Violets	.50@ .75
Harrill, Callas	4.00@ 6.00
Asparagus	50.00
Smilax	20.00@ 25.00

PHILADELPHIA, May 4.

Roses, Beutles, per dozen	3.00@ 4.00
" Brunners	16.00@ 35.00
" Teas	4.00@ 12.00
Carnations	1.00@ 2.00
Lily of the valley, Narcissus	3.00@ 4.00
Violets	.50 @ .75
Hyacinths	2.00@ 3.00
Harrill	8.00@ 10.00
Sweet peas	1.00@ 1.50
Smilax	12.00@ 15.00

**John I. Raynor,**  
 49 WEST 28TH STREET,  
 NEW YORK.

**SPECIAL EXTRA STOCK OF**  
 AM. BEAUTY, METEOR,  
 BRIDESMAID, BRIDE.  
**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

**THOS. YOUNG, JR.**  
 Wholesale Florist  
 43 West 28th Street, New York.

**WALTER F. SHERIDAN,**  
 WHOLESALE  
**FLORIST,**  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
 returns for their stock at....

**JULIUS LANG'S**  
 53 W. 30th Street, - NEW YORK.

**Edward C. Horan,**  
 34 W. 29th Street, NEW YORK,  
 WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.  
 Price list on application.

**WM. C. SMITH,**  
 Wholesale Florist,  
 40 So. 16th St., PHILADELPHIA.  
 Consignments Solicited. Special attention given to  
 shipping orders  
 Long Distance Telephone 5008 A.

**CITY HALL CUT FLOWER MARKET,** 9 Chapman Place, 15 Province Street,  
**BOSTON, MASS.**  
**WELCH BROS., PROPRIETORS.**  
 Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported  
 weekly; payments monthly, or oftener if required.  
 THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

**J. K. ALLEN,**  
 Wholesale Florist.  
 WHITE VIOLETS, finest quality.  
 EXTRA ROSES and other desirable specialties.  
 57 West 28th Street,  
 Long Distance Telephone 382-38th St NEW YORK.

**GALVIN & CO.**  
 Wholesale Florists  
 AND DEALERS IN ALL  
 FLORISTS' SUPPLIES,  
 4 Ordway Place, BOSTON, MASS.  
 Cut Flower Consignments Solicited. Best market.

**GEORGE A. SUTHERLAND,**  
 Cut Flowers and Florists' Supplies  
 WHOLESALE.  
 67 Bromfield St., BOSTON, MASS.

Wholesale Florists  
 ALWAYS ON HAND:  
 CARNATIONS,  
 BRIDESMAIDS,  
 BRIDES.  
 N. F. McCarthy & Co. FLORIST'S  
 SUPPLIES.  
 FLORISTS' VASES.  
 Horticultural Auctioneers.  
 84 HAWLEY STREET, - BOSTON.

**JOHN YOUNG,**  
 ROSES, CARNATIONS, VALLEY  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.

**FRANK MILLANG,**  
 CUT FLOWERS,  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 Cut Flower Exchange. NEW YORK.

Decorating.

In the Easter number of the AMERICAN FLORIST we are given illustrations of decorated plants and flower pots. Shades of Flora preserve us! To what are we coming when the decorative must be decorated? We have had the tissue paper craze with all its horrors; curtains and dressers, and lamp shades, etc., etc., have been bedecked and swathed in it, and impossible flowers of every description have offended our artistic sense, and now that its star is in the descendent, it has attacked our darlings of the greenhouse.

What have they done that such indignity should be heaped upon them; they who have occupied the highest place in decoration are to be decorated, to have a wardrobe with petticoats and sashes, trills and furbelows. Who knows but each plant will yet own a Saratoga trunk, and should the idea be carried out still further into the garden our trees will be wearing gowns and trousers with dress-makers and tailors employed especially for them.

In the name of all that is beautiful, graceful and artistic I protest.

THEODOSIA B. SHEPHERD.

SPRINGFIELD, MASS.—John Aitkin, aged 58, died at his residence, 99 Marble street, on April 30. Mr. Aitkin has conducted a florist's establishment on Main street for the past six years.

No. 60.

**THIS COUPON**

if presented on any Tuesday or Friday during the spring season will entitle THE BEARER to a good comfortable seat at

**CLEARY'S**

where he can purchase at his own figures anything and everything in plants, roots, trees and shrubs.....

Sales at 60 Vesey Street, NEW YORK, N. Y. A. M. EVERY TUESDAY AND FRIDAY.

**N. Y. CUT FLOWER EXCHANGE**

404-412 E. 34th St. Near Ferry.  
Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

**HOLTON & HUNKEL CO.**

SUCCESSORS TO  
The Wisconsin Flower Exchange.  
Fresh Cut Flowers, Florists' Supplies  
Manufacturers of WIRE DESIGNS

Consignments Solicited Phone Main 974  
457 Milwaukee St., MILWAUKEE.

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long,  
50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

Successful Growers are Wanted

To know that they can dispose of all their surplus stock by advertising in the American Florist. TRY IT NOW!

Wholesale Flower Markets

CINCINNATI, May 5

Roses, Beauties, select.....	20.00
" medium.....	10 00@15 00
" Brides, Brideamaldas.....	3 00@ 4 60
" Meteoros.....	4 00@ 5 00
" Perle.....	3 00
Carnations.....	1 00@ 1 50
" fancy.....	2 00
Marguerites.....	25
Lily of the valley.....	3 00
Harrish.....	8 00@10 00
Callas.....	6 00@ 8 00
Smilax.....	12 50
Adiantum.....	1 00
Asparagus.....	50 00

ST. LOUIS, May 5.

Roses, Beauties.....	2 00@33 00
" Meteoros.....	1 00@ 3 00
" Brides, Brideamaldas.....	1 00@ 4 00
" Perle.....	1 00@ 4 00
" Kalaerin.....	1 00@ 4 00
Carnations.....	1 00@ 3 00
Violets, California.....	.35
" double.....	.50
Lily of the valley.....	2 00@ 3 00
Harrish.....	6 00@10 00
Callas.....	5 00@ 6 00
Smilax.....	15 00@20 00

MILWAUKEE, May 5

Roses, Beauties.....	10 00@20 00
" Brides, Brideamaldas.....	2 00@ 5 00
" Perle.....	3 00@ 4 00
" Meteoros.....	1 00@ 4 00
Carnations.....	1 00@ 2 00
Sweet peas.....	.75@ 1 00
Lily of the valley.....	3 00
Tulips, Von Slons.....	2 00
Hyacinths.....	2 00@ 3 00
Callas, Harrish.....	6 00@ 8 00
Smilax.....	2 00@ 5 00
Adiantum.....	12 50@15 00
Pansies.....	.75@ 1 00
Common ferns.....	.20
Iris.....	4 00@ 6 00

BUFFALO, May 5

Roses, Beauties.....	10 00@40 00
" Brides, Brideamaldas, Meteoros.....	3 00@ 6 00
" Perle.....	3 00@ 4 00
" Niphotos.....	3 00@ 4 00
" Kalaerin.....	3 00@ 6 00
Carnations, white and colored.....	1 00@ 2 00
Daybrek and fancies.....	2 00@ 3 00
Lily of the valley.....	3 00@ 4 00
Violets.....	.80@ .75
Hyacinths.....	1 00@ 3 00
Harrish.....	8 00@10 00
Callas.....	6 00@10 00
Tulips.....	1 00@ 2 00
Daffodils.....	1 00@ 2 00
Pansies.....	.30@ .50
Smilax.....	15 00
Adiantum.....	1 00@ 1 25
Asparagus.....	50 00@75 00

Your Spring Plant Trade

will come easier, and be more profitable if solicited in the nice way you can do such things by means of

LONG'S  
FLORAL BLOTTERS

samples for 20 cts. in stamps.

DAN'L B. LONG, Publisher  
BUFFALO.

COMPLETE LINE OF SUPPLIES

WIRE WORK

WE MAKE

IMPORTERS OF

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ALWAYS ON HAND FINE STOCK CUT FLOWERS

ELLIS & POLLWORTH  
MILWAUKEE WIS.

C. A. KUEHN,  
Wholesale Florist,

1122 PINE STREET,  
ST. LOUIS, MO.

A complete line of Wire Designs.

MOUND CITY CUT FLOWER CO.

Wholesale Florists.

CONSIGNMENTS SOLICITED  
Special attention given to shipping orders  
1322 Pine St., ST. LOUIS, MO.

C. W. WORS

2740 Olive Street,  
ST. LOUIS, MO.

FLOWERS at  
.....ROSES, and a full line

Headquarters for the South West.....

When writing mention American Florist

ST. LOUIS CUT FLOWER CO.

Wholesale Florists

E. H. MICHEL

1620 Olive St.  
ST. LOUIS, MO.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING  
WHOLESALE COMMISSION FLORIST....  
495 Washington St., Buffalo, N. Y.  
Also Dealer in Florists' Supplies and Wire Designs

Going, Going, Gone!

and it's your own fault if you don't get the bargains. Auction Sales of Plants every Tuesday, Thursday and Saturday at 9 A. M. at.....

McCARTHY & CO.'S

84 Hawley Street, BOSTON, MASS.

you want to buy, send for Catalogues. you want to sell, write for terms.

IT PAYS!

H-L-SUNDERBRUCH CO  
WHOLESALE COMMISSION FLORISTS  
4th and WALNUT STS.  
CINCINNATI, O.  
CONSIGNMENTS SOLICITED  
SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

**Ghent Quinquennial Show.**

An international horticultural exhibition has just been held (April 16 to 24) by the Royal Agricultural and Botanical Society of Ghent, Belgium, and was a very extensive and successful affair. The society is about 90 years old, and this is its 163rd exhibition, being the fourteenth international one, the latter exhibitions being held every five years.

**Helpful Reminders.**

If you have sown seeds of perennials as suggested weeks ago, they should now be transplanted in rows to the open ground and carefully labeled. They will be just right for fall or spring delivery. There are several perennials which are as useful for cutting as for landscape work, and these should be grown in larger quantities. Some of them are achillea, white, comes in when carnations are scarce; boltonia, pink, long sprays for vases; convallaria; coreopsis, a desirable yellow flower; larkspur, when blue is wanted. The florists are often called on for red, white and blue, and blue is usually scarce. It is well to provide campanulas, which are blue, also, and come in well where short stems will answer. Forget-me-nots are useful, and above all, for artistic effect, include iris. Gypsophila is valuable for white and delicate covering. Monarda is a striking scarlet. Peonies are always in demand. Pyrethrum uliginosum is valuable. Rudbeckia Golden Glow and double sunflower are useful for yellow. In addition to these perennials agapanthus is a desirable blue, and the common white lilac and Hydrangea paniculata are often available. Now is the time to provide any of these plants. The Clematis paniculata in pots, trained on cane stakes, comes in good for decorations; in fact all clematis should be grown in pots, because there is sale for them all summer.

All shrubby plants which have been grown for bloom, now that the blooming season is over, should be treated with care to induce strong growth of new wood, bearing in mind that it is the wood formed now that blooms next season. This is particularly true of deutzia. We are too apt to put them to one side carelessly, considering them of no value until next season.

It is time now to arrange for next winter's crop of euphorbias, either the poinsettia or Jacquinæflora. For some reason the Jacquinæflora variety does not appear to be well known. It is quite easily grown and very attractive, being one of the most graceful sprays for vases.

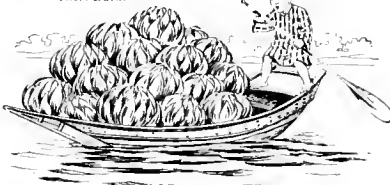
Take all your stock plants and trim them to the desired shape; shake out and replant in good soil. Keep them growing. Set outside after June 1, and take in to warm by September 10. Of the wood cut off make cuttings of two or three eyes; put them in ordinary cutting bench; keep moist and a trifle shaded. They are quite a long while in rooting, but the principal point is to keep them growing in a temperature not below 60° at any time, day or night. If you are prepared to give them the best do not omit E. Jacquinæflora, but if you cannot maintain the temperature don't grow them at all, as they will only be rubbish.

Don't allow yourself to feel that it is safe to go without fire because it is May. Keep up the proper temperature as carefully as if it were January, and do not measure crops by quantity until quality is assured.

It is time to start bouvardia; put in cuttings where stock is not large enough; trim up old plants and give them

a top-dressing. This will keep them in trim until the latter part of June, when you will have time and space to plant a bed of this beautiful flower. It comes next to the carnation and rose in general usefulness, and until the wholesale growers become enterprising enough to supply it we must grow it ourselves. Provide yourself with pink, white and scarlet.

C. B. W.

WATSON'S LILY BULBS  
FROM JAPAN

LONGIFLORUM PURE STOCK. SOUND AND WELL RIPPENED.

On account of the scarcity of the larger sizes of JAPAN LONGIFLORUM and the large demand for same this season I have to request that orders be booked EARLY to avoid disappointment. I offer 3 sizes namely: 5-7, 7-9 and 9-10 inches, but can only accept orders for the larger sizes when fair proportion of the smaller is taken. Delivery Sept. 25 to Oct. 15, 1898. Prices on application. Would be pleased also to get your general order for other Forcing Bulbs and Roots at same time. Address all orders and correspondence to Juniper and Walnut Sts., Philadelphia.

G. C. WATSON.

## SUPREME COUNCIL

### Of the Royal Arcanum

Will hold a meeting in Cleveland, O., May 18-25 for which the Nickel Plate Road is authorized to sell tickets at one and one-third fare for the round trip, on certificate plan. Unexcelled dining car service. Vestibuled sleeping cars. Three through trains daily from the Van Buren Street Passenger Station. For full particulars call up telephone Main 3389 or address J. Y. CALAHAN, Gen'l Agent, 111 Adams Street, Chicago.—(13)

## BAPTIST ANNIVERSARIES

Rochester, N. Y., May 16-24, 1898.

THE NICKEL PLATE ROAD is authorized to sell tickets to Rochester, N. Y. and return, at one fare and one-third for the round trip, on certificate plan, account of above meeting. Tickets good on any of our through express trains leaving Chicago daily from Van Buren Street Passenger Station at 10:35 A. M., 2:55 P. M., and 10:15 P. M. Vestibuled sleeping cars and unsurpassed dining car service. You will save time and money by patronizing the Nickel Plate Road. For further information address J. Y. CALAHAN, Gen'l Agent, 111 Adams St., Chicago, or phone Main 3389.—(16)

**MAIL** For Insurance against  
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AM. ASSOCIATION OF NURSERYMEN. IRVING ROUSE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y and Treas.

VANCOUVER, B. C.—There is great indignation felt in many a British Columbian household just now over the ruthless confiscation and destruction at the hands of the Canadian customs officials of choice nursery stock imported from Oregon, Washington, California, New York and other horticultural centers in the United States.

Nurserymen's Convention.

We have received the preliminary programme of the twenty-third annual convention of the American Association of Nurserymen, to be held at Omaha, Neb., June 8 and 9. There will be discussions at the sessions of matters of vital interest and reports of committees charged with important duties in the interest of nurserymen. Those who will address the meeting, and their subjects, so far as known at present, are as follows: Irving Rouse, of Rochester, N. Y., President's address; Prof. S. M. Emery, of the Montana Experiment Station, Bozeman, Mont., "Fruit Prospects in Montana"; Prof. F. W. Taylor, of Lincoln, Neb., "Relation of Agriculture to the Exposition"; Hon. C. L. Watrous, of Des Moines, Ia., "A Little Matter of Business"; Hon. N. H. Albaugh, Tadmor, Ohio, "Is the Insect Agitation of the Present Day a Good or Bad Thing for the Nurseryman?"; President Gardon W. Wattles, of the Trans-Mississippi and International Exposition, will address the members and welcome them to the city of Omaha and the exposition.

Japanese Maples.

ED. AM. FLORIST:—Please let me know something about Japanese maples and their treatment through your next issue. M. D. G.

The question is rather a broad one, as it is said that Japan and China contain some thirty species of maples. Your correspondent probably refers to the garden forms generally grown as shrubs with us. Acer palmatum and A. japonicum are the types that give us many varied forms, varied both in shape and color of leaf. Many plants are imported each year from Japan that are well adapted for pot culture. Some are curiously inarched and grafted with from five to seven varieties, and do well as veranda plants, especially if grown in rustic pots. In the earlier part of the season the coloring of their foliage is fine, but toward fall it fades somewhat. A. palmatum, often called A. japonicum, is the parent of atropurpureum, dissectum, punctatum, sanguineum, and others. They like a loamy soil and considerable moisture. Nearly all of our eastern nurseries carry all but the outgrafted forms, and these may be obtained from dealers in Japanese plants. W. C. J.

Good Roses Without Grafting.

George Anderson, of this city, has been very successful with his Brunners this season. A house now in bloom is in extra fine shape. He has also two good houses of Kays roses that are about as fine as anything I have seen in this neighborhood. George says: "They talk about grafting Kays roses. Do you see any need of grafting roses?" It would look

as if grafting was superfluous if such strong growth can be got on own root stock as here shown. I notice, however, that George has a thousand young Bridesmaids of grafted stock ready to put in, so that he is not altogether to be counted on Mr. May's side yet on this agitating question of the moment. G. C. W. Philadelphia.

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**A Lily Experience Symposium.**

The experiences of Chicago growers of lilies are here tersely told.

Samuel Pearce: "We forced 5,000 Harrisii and 3,000 Lilium longiflorum, and had the crop in just right for Easter, but 65% of the Harrisii were diseased. The loss on L. longiflorum was very small. We potted both varieties in the compost used for our miscellaneous plants. Hereafter we shall grow no Harrisii for Easter."

August Jurgens: "We had 5,000 Harrisii and forced the last of them in for Easter. The loss by disease was 25%. Out of 5,000 L. longiflorum the loss was not worth mentioning. Both were potted in common soil. We think the latter much the better for forcing."

August Dressel: "Out of 8,000 lilies, about half and half of Harrisii and L. longiflorum, we lost 50% of the former and 4% of the latter by disease. They were all potted in ordinary potting soil. We sell many of our lilies in pots and find longiflorum the better for that purpose. Our stock was just right for Easter."

Albert Fuchs: "About 25% of my Harrisii were diseased, while the loss on longiflorum was very small."

Henry Hilmer: "Out of 3,000 Harrisii 5% were diseased. There was no loss among 3,000 L. longiflorum. They were potted in fresh soil, with a very little manure."

Poehlman Bros.: "We forced 3,000 Harrisii, with a loss of 5%. Of the same number of longiflorum there were very few diseased plants."

John F. Kidwell & Bro.: "Our loss by disease was 10% on 4,500 Harrisii, and on the same number of longiflorum we lost practically nothing. Last year we lost 50% of our Harrisii. This year we potted in maiden soil without manure. We think manure breeds disease, especially if used when too fresh."

George Reinberg: "Most of my 5,000 lilies were Harrisii. The crop was mostly in for Easter, with a loss of about 8%."

Peter Reinberg: "I forced 5,000 lilies, with very little loss by disease, but the crop was two weeks late for Easter."

Emil Buettner: "I lost 65% of 5,000 Harrisii by disease and shall grow no more until better bulbs can be obtained. Of my longiflorum 95% formed good flowers, and I think them equally easy to force."

Bassett & Washburn: "This has been the most successful lily season we have ever had. We had 30,000 Harrisii and commenced cutting blooms the first week in November. We had a good crop in for Christmas and forced the last of them for Easter. We also had 10,000 L. longiflorum, of which a larger percentage were diseased than were of the Harrisii, and we did not succeed in getting them all in bloom for Easter. We have never been able to manage longiflorum as successfully as we do Harrisii."

Weber Bros.: "We have as fine a house of lilies as one could wish for. They were intended for Easter, but will be about right for Memorial Day. The bulbs were potted in October and have ever since been kept in a temperature of from 55° to 60°. January 1 they were planted out on benches in an old rose border, with about six inches of soil. We have never seen such strong flower stalks grown from such small bulbs." J. T. A.

NEW BRIGHTON, PA.—Thomas W. Richards, who has conducted a greenhouse business for a number of years on Thirtieth street, will retire in August owing to ill health

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MEMORIAL DAY will be here in three weeks, and there will be a boom in supplies appropriate for the demands of the day.

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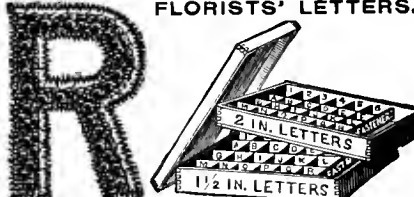
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S. L. ALLEN, of Philadelphia, the well known maker of Plant Jr. tools, will visit California in May.

SWEET PEA prices have evidently taken a sharp turn upwards on account of the drought in California.

SEED GROWING CONTRACTS of all kinds are placed with farmers now with more difficulty than before the war began, farmers evidently anticipating much better general prices on their standard crops.

PHILADELPHIA. — Estimates are being taken for the erection of a seven-story seed warehouse for W. Atlee Burpee & Co., at No. 475 North Fifth street. The new structure will have a frontage of 40.4 1/2 feet on Fifth street, and will extend back to York avenue S3 1/2 and 7 1/2 feet. It will have a front of brick, with Indiana limestone trimmings.

DANIEL DE COU, long employed by S. L. Allen & Co., of Philadelphia, and recently European traveler for that firm, died at Haddonfield, N. J., on Tuesday night, April 26, and was buried at Moorestown May 1. Mr. De Cou was a brother-in-law of Mr. S. L. Allen; he was well known to the seed trade, and well liked for his genial and diplomatic personality.

Pittsburg.

Business continues in about the same quiet condition that it has been in for the past two weeks, and while nothing particularly noteworthy has occurred, the volume of trade is quite large and each florist seems satisfied. In fact the April business was very considerably more than that of April a year ago.

Unless present conditions change very much for the better, there will be scarcely any additions made to the existing number of greenhouses in this vicinity this season, all being content to await a marked improvement in general trade, being perfectly willing to pay the increased cost of material when that condition prevails.

Breitenstein & Flemm, Market and Liberty avenue, have remodeled the interior of their store room, substituting tables for most of the counters, thus getting a much more roomy and open effect. They report business as good and prices satisfactory.

Mr. S. S. Skidelsky was a visitor this week. REGIA.

Youngstown, O.

The popular notion that number 13 is an unlucky one does not seem to hold good in L. Hippard's case, for among the eight hundred and odd seedlings in his place, that designated as "13" looks the most promising. There are others, however, which are equally in the swim, in so far as pedigree and vigorous growth are concerned.

A sport of L. A. Wood, a very pleasing deep pink carnation borne on a long stiff stem, attracts special attention. It is a fine specimen of its kind and well worthy of a thorough test. Mr. Hippard is growing the standard varieties quite extensively, over 100,000 having already been planted in the field.

Mr. Hippard takes especial pride in his roses, and well he may, for a finer stock it would be hard to find. His Brides, Bridesmaids and Meteors are decidedly choice, while his Perles are "pearls," and like the gem command a ready market.

A new departure and one which promises to pay, is that of growing ferns for the wholesale market. Over 200,000 will soon be transplanted into 2 1/4-inch pots. HOMO.



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Mention American Florist.

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Our JAC. KEUR will leave this country about May 15, and if he can be of any service to intending buyers of bulbs and plants shall be glad to hear from same before above date. Address

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726 Broadway, - NEW YORK, N. Y.





Catalogues Received.

C. Keur & Sons, Hillegom, Holland, bulbs and roots; Roustan Servan & Co., Saint-Remy-de-Provence, France, seeds; E. C. Amling, Chicago, Ill., vases.

PORTLAND, ME.—Arthur H. Terry and Frank J. Goodridge, who did business as the Fairfield Floral Co., have been indicted for the fraudulent use of the mails. They did business by advertising and claimed to be merely selling artificial flowers but the authorities thought that it was a confidence game. The mail of the concern averaged 100 registered and 3,000 ordinary letters a day.

**NEW FORCING ROSE  
MRS. ROBT. GARRETT**

Hybrid tea, rich soft pink, buds very long, flower extra large, delightfully fragrant, rivaling Bridesmaid in color, but larger and much more productive. A sturdy, vigorous grower, a money maker and a triumph of American skill. The best firms in the country are investing in it. It has won numerous prizes and has elicited the most favorable comment from critical judges. Price strong plants from 2 1/2-inch pots, \$25.00 per 100 in lots less than 1000; \$225.00 per 1000. Orders booked now, delivery March 15, 1898. Correspondence solicited. Address

**H. WEBER & SONS, Oakland, Md.**

**ROSES OWN ROOTS.\*  
DORMANT.\*.\*  
FIELD GROWN**

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet  
Yellow Rambler (Aglais)  
Hybrid Perpetuals,  
Mosses, Hardy Climbers  
and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager,**

1308-1310 Unity Bldg., - CHICAGO, ILLS.

**ROSES ...FOR...  
SUMMER BLOOMING**

LA FRANCE ROSES strong, one and two-year-old plants, growing cool during Winter, fine shape for Summer blooming, ready for immediate planting. In the houses will give enormous crops of flowers all through the season; there is no better pink rose for Summer cutting than La France.

\$10.00 per 100 for 1 year old,  
\$12.50 per 100 for 2 year old.

Also a fine lot of white and new yellow Daisies, 5 in pots, in full bloom \$2.00 PER DOZEN. These are a splendid bargain

Long Distance Telephone, 94-11 D.

**David Gliffe,** MAIN AND JOHNSON  
STREETS,  
CERMANTOWN, PHILA., PA.

**ROSES..**

	2-in. per 100	3-in. per 100
Am. Beauties ..		\$5.00
Perle .....	\$2.75	4.50
Bridesmaid ...	2.75	4.50

MAPLEWOOD CUT FLOWER and PLANT CO.  
PLEABANT HILL, MO.

**Memorial Rose**  
(Rosa Wichuriana)

Strong field-grown plants,  
\$50, \$75 and \$100 per 1000

**SAM'L C. MOON,**  
MORRISVILLE, Bucks Co., PA.

**6,000 MOSELLA**

(YELLOW HERMOSA)

Strong three-inch pots, \$6.00 per 100. One of the finest roses for out-door planting. Write for our trade list, it contains a few "good things." \* \* \* \* \*

**ROBT. CRAIG & SON,**

Cor. 49th and Market Streets, \* PHILADELPHIA.

**2c.=ROSES=2c.**

From 2 1/2-inch pots. Mary Washington at \$15.00 per 1000.

**FOLLOWING LIST, \$2.25 per 100; \$20.00 per 1000.**

- |                    |                   |                    |                     |
|--------------------|-------------------|--------------------|---------------------|
| Agrippina          | Couquette de Lyon | Mme. Pernet Ducher | Bon Silene          |
| Marie Van Houtte   | J. B. Varrone     | Duchess Brabant    | Safrano             |
| Frigeneuse         | White Hermosa     | Princess Sagan     | Mme. Welche         |
| R. Marie Henrietta | Marquis de Vivens | Yellow Hermosa     | Praire Queen        |
| Mme. Elie Lambert  | Marie Lambert     | Purple China       | Baltimore Belle     |
| Tennessee Belle    | Lucullus          | Mme. Jos. Schwartz | Media               |
| Golden Gate        | Queen's Scarlet   | Wichuriana         | The Queen           |
| Louise Philippe    | Andre Schwartz    | C. Mermet          | Marie Guillot       |
| Chromatella        |                   |                    | Triumph Pernet Pere |

All other Roses, Carnations and general stock. Send for complete list.

**THE NATIONAL PLANT CO., Dayton, Ohio.**

**AM. BEAUTIES**

FINE PLANTS from 3-inch pots,  
\$10.00 per 100; \$90.00 per 1000. \*

**JOSEPH HEACOCK**

WYNGOTE, PA.

**ROSES ...**

PERLES.....	} Pots 100	} Pots 100		
METEORS.....				
BRIDESMAID }			2 1/2 \$2.50	3 \$3.50
BRIDE.....				

Guaranteed first-class. Stock grown in low temperature.

THE E. HIPPARD CO., Youngstown, Ohio.

**300,000 YOUNG ROSES 300,000**

Ramblers, Climb Malmaison, Climb. White Pel, Climb Woolton, Pres Carnot and 100 other leaders in Teas, H. Teas and Climbers. Send for prices Moon Vines, \$2.50 per 100. Rose Geraniums, \$2.50 per 100.

The National Plant Company, Dayton, Ohio.

**Write for Prices**

of Beauties, Meteors, Belle Subrecht, Perles, Maids and Brides in 2-inch, same varieties and La France and V. Kaiser in 3-inch. Surtax in 2-inch. If samples are wanted send 5c in stamps.

GEO. A. KUHL, - PEKIN, ILL.

**WANTED ROSE PLANTS**

Testout, Woolton. Send sample and price. . . . .

Colfax Ave. Floral Co., Denver, Colo.

**H. P. ROSES**

FROM 2 1/2 INCH POTS.

Strong, thrifty, well established plants. General price \$1.00 per 100. Extra fine lot of Crimson Ramblers. . . . .

**Jackson & Perkins Co.**  
NEWARK, NEW YORK.

**ROSES**

From 3-inch Pots at 3c. Fine clean plants. Price reduced to close out, only a few hundred each. . . . . Genl. Jacqueminot, La France, Coquette des Blanches, Coquette des Alpes, Louis Odier, Clothilde Souper, Jules Margottin. Packed free. Clematis Honeyal and Miss Bateman, the leading large white sorts; fine 1 and 2-year field-grown plants like Clematis Virginalis, sweet scented, small white flower, 2 year, fine. 5c

W. H. SALTER, Rochester, N. Y.

**Do You Plant Beauties?**

Am. Beauties, 3 inch at \$5.00 per 100. Not cuttings, but clean, strong, well grown stock and guaranteed free from all disease. . . . .

**A. DONAGHUE,** 108 S. 16th Street,  
OMAHA, NEB.

It is good business policy to mention the

**...AMERICAN FLORIST**

when you write to an advertiser.

Worcester, Mass.

Good flowers are in excellent supply and the demand is all that can be expected. Roses and carnations are of particularly fine quality. Bulbous stock is nearly exhausted. Some outside grown hyacinths and narcissus are coming in. Lily of the valley and Japan Lilium longiflorum are both choice and plentiful. Violets are past but sweet peas are coming extra fine and are selling well.

The second spring exhibition of the Worcester County Horticultural Society was held April 22 and was the occasion of very creditable displays. H. F. A. Lange won first prize on a basket display of cut flowers, tulips in pans, and geraniums in pots. E. A. Weeks took first for hyacinths and F. A. Madaus for best display of narcissus. A. H. L.

Diseased Pelargonium Leaves.

ED. AM. FLORIST:—Enclosed find two diseased pelargonium leaves. I have inspected the leaves very closely with the aid of a small microscope, but can hardly make out the cause of the trouble; it looks to me as if there were a louse or some kind of a bug present. Can you suggest a remedy to prevent its spreading, and describe the nature of the trouble? A. S.

The trouble is not far enough advanced to admit of a certain diagnosis from a few leaves. Very few of the leaf spots show the presence of a fungus in an advanced state, though in several cases a mycelium is present in the tissues. A few of the older spots show the presence of the fungi macrosporium and cladosporium, but the species are those which attack dead or devitalized parts of plants, and are not true parasites. It is quite possible that the plants are sickly from some other cause than fungus attack, and in this condition these saprophytic fungi are enabled to gain entrance and cause the more rapid disorganization of the tissues, and therefore the spots on the leaves. I would suggest treatment which would tend to give the plants a more vigorous and healthy growth; good light, good air, porous and well drained soil, and be sure that there is no trouble with the roots. Perhaps all these precautions have already been taken. If the trouble is initiated by fungi, then removing and destroying all the affected leaves, and spraying the plants with one of the ammoniacal carbonate of copper solutions, would probably prevent the farther development of the fungus. GEO. F. ATKINSON.

500 Canna Austria

Strong started plants @ 2c each, or will exchange same amount for Madame Crozy.

W. W. COLES, Kokomo, Ind.

Violet Plants...

Marie Louise

Strong healthy rooted runners.....\$ 4.00 per 1000 Sand struck cuttings..... 10.00 per 1000 Grower of One Million Violets. Cash with order.....

GEORGE SALTFOORD, Rhinebeck, N. Y.

50,000 SINGLE ROOTED VIOLETS

\$2.00 per 1000; cash with order. Will exchange some for rooted rose cuttings or plants.

J. K. POSTMA, - PRINCETON, KY.

ORDER AT ONCE AND SECURE STOCK

CHRYSANTHEMUMS

Rose Owen, J. H. Woodford, Dorothy Devens, G. F. Atkinson, Golden Trophy, T. B. Morse, Pres. McKinley, Western King, The Herriott, Surprise, Marcia Jones, Elvena, Miss Helen Wright, Belle of Castlewood, Chito, C. W. Ward, Mrs. S. T. Murdock, W. P. Kaynor, Modesto, Lenawee, Pride of Castlewood, Bonaffon, Ivory, Ruth Ellis, 50 cts. per dozen; \$3.00 per 100. Frank Hardy, T. H. Spaulding, Mrs. O. P. Bassett, The Yellow Fellow, Madeline Pratt, Mrs. C. H. Peirce, Merry Christmas, 35 cts. each; \$3.00 per dozen. Snow Queen, Pennsylvania, 50 cts. each; \$5.00 per dozen. W. H. Chadwick, \$1.00 each; \$6.00 per dozen.

CARNATIONS

Jno. Young, Bon Ton, Mrs. Jas. Dean, White Cloud, New York, Empress and Evelina, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. Lily Dean, C. A. Dana, Mayor Pingree, \$5.00 per 100. Daybreak and Storm King, fine from soil. \$2.00 per 100; \$15.00 per 1000. Scott and McGowan, \$2.00 per 100; \$12.00 per 1000.

CANNAS

Pres. McKinley, Defender, Pres. Cleveland, Tarrytown, 60 cts. each; \$5.00 per dozen. Queen Charlotte, Admiral Avellan, Pres. Carnot, Midway, Ami Pichon, Egandale, Chas. Henderson, \$2.50 per 100. Eldorado, A. Billard, Burbank, Count de Bouchard, Souv. du Pres. Carnot, Souv. d'Antoine Crozy, Papa, \$4.00 per 100.

For full description send for our 1898 wholesale list.

THE COTTAGE GARDENS, Queens, N. Y.

Chrysanthemum Mrs. A. F. Wienold

WE claim this to be one of the grandest early whites yet sent out. Originated with us 3 years ago and given a thorough test. It is earlier than Borgmann. Flowers 7 to 11 inches in diameter; is easy to grow; a splendid keeper and above all never shows its center. Except in color it looks like a well grown Golden Wedding. Select stock, 2½-in. pots, 20c each; \$1.50 per doz.; \$10.00 per 100.

CAL. VIOLETS. No disease. Strong runners. 50c per 100; \$4 per 1000. McDONALD & STEELE, Crawfordsville, Ind.

Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2½-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

NATHAN SMITH & SON

Wholesale Florists

Specialties. ADRIAN, MICH.

CHRYSANTHEMUMS CARNATIONS AND VIOLETS

CORRESPONDENCE SOLICITED

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots. CARNATIONS, for fall delivery. CHRYSA NTHEMUMS. SMILAX. VIOLETS. Prices low. Send for list. WOOD BROTHERS, FISHKILL, N. Y.

West Islip Greenhouses MARIE LOUISE VIOLETS

Rooted Runners, \$4 per 1000. Cash with order.

E. B. SUTTON, Jr. P. O. Address... BABYLON, N. Y.

New CARNATIONS.

WHITE CLOUD—White. GOLD NUGGET—Yellow. NEW YORK (Ward)—Bright cerise pink. MRS. JAMES DEAN (Ward)—Clear silvery pink. JOHN YOUNG (Ward)—White. BON TON (Ward)—Scarlet. Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaeter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons).

All good 1897 novelties and other standard varieties at reasonable prices.

New Chrysanthemums.

MRS. C. H. PEIRCE—Yellow. 3½c each, \$3.50 per doz., \$25.00 per 100. SNOW QUEEN—White. 50c each, \$5.00 per doz., \$35.00 per 100. MERRY CHRISTMAS—Late White. 35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List. Ready January, 1898.

F. DORNER & SONS CO. LAFAYETTE, IND.

Vinca MAJOR Var. Per 100 From 4-inch pots.....\$7.00 From 2-inch pots.....\$3.00

Sonnenschmidt & Junge

456 E. Washington St. INDIANAPOLIS, IND.

**Experiments in Carnation Culture.**

An interesting series of experiments has been conducted at the Connecticut Experiment Station for the purpose of studying the fertilizer requirements of carnations. The plants were mostly grown in a compost of sifted soft coal ashes to which three per cent by weight of peat moss was added. Other plats of ordinary compost were used, also, for comparison. The fertilizers used were nitrate of soda, dissolved bone black and muriate of potash in varying amounts. The fertilizer was, in general, all applied before planting, no subsequent top-dressing or liquid applications being used.

The most successful plats were those receiving heavy applications of fertilizer, and the compost plats did not yield as many blooms as the plats with ashes and peat moss. These experiments were probably carefully designed for the purpose intended, but one can not help wishing that some of the less heavily fertilized plats had received subsequent applications of fertilizer in liquid form, sufficient to bring the total fertilizer applied up to the maximum, and in one case at least to exceed the maximum, to accord with commercial methods. It would also be very interesting to have some tests made as to the action of lime in addition to other fertilizers. It is generally supposed among good commercial growers that lime added to the soil stiffens the stems materially, a strong stiff stem being now almost of paramount importance with this flower.

Some trouble was experienced through the growing together of the petals and consequent failure of the flowers to open. This is the same trouble which has been in one case supposed to result from heavy applications of Alberts' horticultural manure, and has been considered due to excessive amounts of nitrogen in the soil. These experiments do not show this supposition to be true, as some plats having small amounts of nitrogen produced more of these defective flowers than others having sixty per cent more nitrogen. It is to be hoped that the Station may be able to continue and extend these valuable experiments. W. N. R.

CHATTANOOGA, TENN.—Chattanooga's first annual spring festival concluded with Flower Day, May 5. The floral decorations were on a lavish scale, one man decorating his coach with 10,000 roses and concealing with violets the harnesses of the six horses. The troops of the regular army in rendezvous added to the brilliance of the pageant.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

**NEW CARNATION ARGYLE**

A few left at the following price \$10.00 per 100; \$75.00 per 1000....

**STOLLERY BROS.**

ARCYLE PARK, CHICAGO, ILL.

**FLORA HILL CARNATION.** It is so because there is nothing in sight but all equal. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. No other plant is grown to equal it. We have four thousand plants available for propagating from this time through June. Send at once to get the best all ever offered. 1.00 per 100. \$10.00 per 1000. Our trade list is issued. If you have not received one send for it.

E. G. HILL & CO., Richmond, Ind.

**Flora Hill**

20,000 at greatly reduced prices. Don't miss planting the best of all whites.

**H. F. Littlefield**

WORCESTER, MASS.

**BONE FLOUR**

PRICE: \$1.75 per 100 lbs. \$30.00 per ton.

One of many testimonials: Washington D. C., April 4 '98. U. F. LITTLEFIELD. Dear Sir—I take pleasure in testifying to the excellence of your Bone Flour and feel sure that I am indebted to its purity and responsive qualities for the good results obtained during the past season. JOS. R. FREEMAN.

**Carnation**

The Gem of All the ... Variegated Varieties

**Lily Dean**

THIS variety is one of the most prolific bloomers of the whole Carnation family, and the blooms sell at the highest price of any variety the year round. A few hundred extra strong transplanted plants just fit to plant in open ground, now ready at \$5.00 per 100; \$40.00 per 1000. Also all the NEW and STANDARD CHRYSANTHEMUMS in extra good stock, now ready.

**JOHN N. MAY, Summit, New Jersey.**

**Herr's Smilax**

Sample plants sent for 10 cents. 75 cts. per 100, or \$5.00 per 1000.

**CARNATION EXPERIENCES**

A few hundred left, send your address and get one free.....

**ALBERT M. HERR**

Lancaster, Pa.

**NEW WHITE PERPETUAL**

**BLOOMING CARNATION**

**Anna H. Shaw**

The Best "All Round" White Carnation for Cut Flowers. Recommendations: Wonderful bloomer. Unusual vigor. Rapid grower. Forms strong blooming plants in a very short time. Perfectly healthy. Handsome foliage. Large beautifully formed flowers on long stems. Exquisitely fragrant. Never bursts. Blooms longer and gives more flowers than any other variety ever offered. If you want a RELIABLE Carnation that can always be depended upon, give Anna H. Shaw a trial. Rooted cuttings \$1 per doz.; 25 per 100. Strong plants \$1.75 per doz.; \$10 per 100. Send for Trade List and Catalogue of Seeds, Bulbs, Plants, Cacti, Etc.

Mrs. Theodosia B. Shepherd,

Ventura (by-the-Sea), Cal.

**REDUCED PRICES**

Very Fine Rooted

**Carnation Cuttings**

taken from our "Prize" Stock.

MCCOWAN ALASKA ALBERTINI  
HELEN KELLER ARMAZINDY  
DAYBREAK

\$2.00 per 100, \$15.00 per 1000.

SOUTH PARK FLORAL CO., New Castle, Ind.

**CARNATIONS FROM SOIL**

Kathleen Pantling \$10 per 100.  
Beulah 2 1/2 in. 6 per 100.  
Flora Hill 5 per 100.  
Carnots, 2 1/2 in. 4 per 100.

**HOP & LEMKE**

PAUL P. O. E. GRAND RAPIDS, MICH.

**CARNATIONS FROM SOIL**

FIREFLY, EVELINA, EMPRESS, ARGYLE,  
GOLD NUGGET, BON TON, PSYCHE,  
PAINTED LADY AND TEN OTHER  
VARIETIES OF 1898.

\$2.00 per doz.; \$10.00 per 100. Also best older varieties—send for list.

GEO. HANCOCK & SON, Grand Haven, Mich.

**CARNATIONS**

STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later

Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**

Lock Box 11. GRAND RAPIDS, MICH.

**Carnations Chrysanthemums**

NEW AND STANDARD VARIETIES

Our new Trade List will embrace the leading novelties of 1898 and 1897 as well as the best standard sorts. Address

H. WEBER & SONS, Oakland, Md.

**Bread and Butter Carnations**

Scott and Rose Queen for Pink; Emily Pierson for White. No experimental and disappointing growing these carnations. Strong rooted cuttings \$1.00 per 100. \$8.00 per thousand. Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CARNATIONS AND COLEUS ROOTED CUTTINGS

THE 1898 INTRODUCTIONS THE 1897 INTRODUCTIONS

DAYBREAK of special quality. ROOTED COLEUS in variety. Good stock only. Price list free.

DAN'L B. LONG, Growers' Agent, BUFFALO.

KLONDIKE

Cold Fields at Your Door.

COLEUS—All kinds, all grades and all prices. Verachaffteit and Queen, 75c per 100; \$6.00 per 1000; 2 1/2-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 50c per 100; \$4.50 per 1000; 2 1/2-inch pot, \$12.00 per 1000; \$1.50 per 100. Agrostis dwarf blue, 40c per 100; \$5.00 per 1000. Fuchasia, standard sorts, \$12.00 per 1000; \$1.50 per 100. Anthemis Coronaria, Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 40c per 100. Helianthus Multiflorus, Double Golden, 2 1/2-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2 1/2-inch pots, \$2.50 per 100; Mme. Sallerot, for flats, \$1.25 per 100; \$10.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000.

The above are rooted cuttings, except where noted. Cash with the order.

J. E. FELTHOUSEN, Schenectady, N. Y.

To Make Room

Aster Plants, @ 60c per 100, or \$5 per 1000. Pansies, transplanted, @ 60c per 100, or \$5 per 1000. Salvia Clara Bedman, 3-in., @ \$2.50 per 100. Salvia Clara Bedman, 2 1/2-in., @ \$1.50 per 100. Petunias, Dreer's strain, 3-in., strong, @ \$2.50 per 100. Geraniums, choice mixed, 3-in., strong, @ \$2.50 per 100. Feverfew Little Gem, 2 1/2-in., strong, @ \$1.50 per 100. Lycopodium Dent., 2 1/2-in., strong, @ \$1.50 per 100. Alternanthera, aurea nana, 2 1/2-in., strong, @ \$1.50 per 100. Hardy Pink and White Pinks, strong, \$4.00 per 100. John White Cannas, 4-in., @ \$5.00 per 100. Strong R. C. Carnations, @ 20 varieties. Above are all extra strong plants.

The Morris Floral Co., MORRIS, ILL.

MAY OFFER.

Alternanthera, 2-in. pots, A. Nana, \$1.75, Per 100 P. Major, \$2.00 Begonias, 2 1/2-in. pot, and Vernon, 2.00 Coleus, 2 1/2-in. pot, and Centaurea Gym, 2.00 Geraniums, 20 var., 2 1/2-in. pots, \$2.00; 3-in. pot, 3 25 Geraniums, 4-in. pots, and Double Petunias, 4.00 Smilax, 2-in. pots, 1000, \$9.00, 1.00 Primroses, ready in June, single, 2.50

CASH PLEASE.

JOS. H. CUNNINGHAM, - Delaware, Ohio.

BARGAINS IN PLANTS FOR CASH

French Cannas, Crozy, Queen Charlotte, per 100 Florence Vanghan, etc., fine plants, \$4.00 Geraniums, Double Grant 2 1/2 inch pots, 2.00 Salvia, Clara Bedman, 2 1/2-inch pots, 2.00 Coleus, 5 varieties, fine, 2 1/2-inch pots, 2.00 Begonia Vernon, fine 2 1/2-inch pots, 3.00 Mountain of Snow Ceranium, 2 1/2 in. pots, 3.00 Order at once and get good stock.

NICHOLAS AMOS, Crestline, Ohio.

HARDY PINKS

2 1/2-in. pots; Souv. de Sale, \$3.50 per 100; Her Majesty, Glou Valley, Laura Wilmer, Gertrude, \$3.00 per 100.

VIOLETS...

2 1/2-in. pots; Admiral Avellon, Princess of Wales, \$3.50 per 100; Luxuone, California, Campbell, Swanley White, \$3.00 per 100.

THE CONRAD & JONES CO., - West Grove, Pa.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000 NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Princess of Wales Violet...

The Best Money-Maker Among Violets. Strong 2 1/2-inch pot-grown plants.....\$5.00 per 100.

J. A. PETERSON, - 105 E. 4th St., Cincinnati, O.

Extraordinary Offer!!

GERANIUM

"Mars"

In bud and bloom. 2 1/2-inch pots, \$5.00 per 100 Express prepaid to any part of U. S. A.

HENRY EICHHOLZ, Florist, WAYNESBORO, PA.

GERANIUMS

4-inch Paper Pots, in Bloom.

PINK, RED and WHITE Best Bedders. . . . Thousands Ready.

.....WRITE.....

GEO. A. KUHL, - PEKIN, ILL.

GERANIUMS

4 inch pots in bloom.

PINK, RED AND WHITE, \$8.00 per 100. TWO THOUSAND READY.

BERNARD PRASIL, ALTENHEIM, Oak Park, Ill.

Geraniums

Best mixed varieties for bedding, all in buds, strong, healthy plants; 3 1/2 inch pots, \$3.00 per 100; 2 1/2-inch pots, \$2.00 per 100.

Cannas 4-inch pots, fine plants; Madam Crozy, Charles Henderson and B. Brown, \$5.00 per 100. Cash with orders.

CARL E. TAUBE, Proprietor, Paxton Greenhouse, - Harrisburg, Pa.

PRICES GREATLY REDUCED

Cape Cod Pink Pond Lily

For price lists, Plants and Cut Flowers, address the original cultivators.....

CHIPMAN BROS.

SANDWICH, (CAPE COD), MASS.

MUST HAVE ROOM

Ceraniums—10,000 S. A. Nutt, 2-inch, \$15.00 per 1000; \$2.00 per 100. Rooted Cuttings from soil, \$10.00 per 1000; \$1.50 per 100. Mimos. Bruant, 2-inch, \$3.00 per 100; Frances Perkins, best Pink, 2-in., \$3.00 per 100. Dracæne Indivisa—Strong 3-in., \$8.00 per 100. Coleus, rooted cuttings, 6 kinds, 50c. per 100; Klondike, strong 2-in., \$5.00 per 100. Begonia Vernon, 2-inch, \$2.00 per 100. Carnation Lizzie McGowan, soil or pots, \$10.00 per 100. Cash please.

CARL HAGENBURGER, - West Mentor, Ohio.

BENJ. CONNELL, Florist,

WEST GROVE, PA.

10,000 Ampelopsis Veltchill, fine dormant pot plants, 1 and 2-year old; price 3 and 6c. 10,000 pot-grown Cannas, cream of bedding sorts. 20,000 Violets; 20,000 Carnations; Spirea Anthony Waterer and Blue Spirea; Strawberry-Raspberry and other new small fruits. All must be sold. Ask for pricea. Address

BENJ. CONNELL, West Grove, Pa.

ROEMER'S Superb Prize Pansies. The finest strain of Pansies in the World. INTRODUCER AND GROWER OF ALL THE LEADING NOVELTIES. Highest Award Inter. Exhibition at Hamburg, 1897. Catalogue free on application. Fred. Roemer, Seed Grower, - QUEDLINBURG, GERMANY.

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Harrisburg, Pa.

Business since Easter has been fair, but would have been better had it not been for the gloomy weather which began after the holidays and continued until the end of April. Considering the frost and one or two heavy snowstorms which threatened destruction to the outside growth, we have had a very good spring season. After the Easter sale, most of the greenhouses and stores presented a very empty appearance. The demand for cut flowers in particular seems to be increasing.

The great call for carnations last winter has caused florists to plant a larger number than heretofore. The Paxton greenhouses are planting a very large stock, 25,000 being already in the earth. The varieties are Flora Hill, Victor, Day-break and Scott, which seem to be the best money-makers.

Mr. Oster, of Fairview, is preparing to go into business and intends to build one or two large greenhouses. Mr. Fenichel of Harrisburg, is about to build an addition to his establishment. He has been very fortunate this year in producing a rather superior assortment of plants.

C. E. T.

When to Fumigate.

ED. AM. FLORIST.—When is it best to fumigate greenhouses, previous to syringing or when the plants are all wet?

N. A.

In reply to query as to the best time to fumigate greenhouses, we prefer the evening, and if possible when there is little or no wind blowing. Care must at all times be exercised to avoid the tobacco flaming. This is done by making the stems slightly damp before the fire is applied, and a watering can filled should be handy with which to sprinkle should the smoke develop a tendency to become too hot, as this is where the danger lies—in the possibility of injuring the tender foliage. Some plants are more susceptible to this trouble than others, for instance, heliotrope and most of the tender leaves of annuals, as mignonette; and as this class of plants is rarely or never affected with the greenfly, a sheet of paper placed over the plants will give them the necessary protection. Disastrous results attended the fumigation of a house of roses with us on one occasion in the early fall, which was operated upon on one foggy morning when the foliage was more or less damp. Whether it was because the fumigation was done in the morning or because the foliage was damp we do not know, but we have always refrained from applying tobacco smoke under similar conditions in the morning ever since, and our plants have escaped a scorching in consequence, we assume. I say assume because most practical men who think they know and feel they know also realize that they cannot prove to the entire satisfaction of the uninitiated in many of the apparent mysteries of horticulture. Many of our operations with plants under glass are done on an hypothesis, as it were, or in other words, much of what we do is influenced by a something which is a little more than a theory and a little less than a fact.

E. L.

POUGHKEEPSIE, N. Y. At the meeting of the Dutchess County Horticultural Society, on May 1, Mr. W. W. Gommer, said read an essay upon "Trees and Shrubs Adapted for Dutchess County," with suggestions for their arrangement.

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Nashville, Tenn.

Balmy spring has opened so gloriously in the last few days that sun and air are very summer like. All kinds of spring blossoms are abundant. Snowballs, peonies, and lily of the valley are in profusion. This seems to have been a particularly good year for lily of the valley, it having been on the market in great quantities. Some seasons the delicate blossoms are nipped by the frost, and we see very few of them. The quality, of course, is not equal to the cultivated varieties, but their fragrance is far greater. The florists have not profited by this profusion of out-of-door flowers, rather the reverse, but there is comfort in the thought that their season is brief. Just now, too, decorations of dogwood blossoms are all the rage, and the great white blooms make a garniture which is not to be disparaged because it is cheap.

At a recent wedding white snowballs and dogwood blossoms were used in the house decorations, and the prospective groom carried to the florist who was to furnish the bridal bouquet one hundred lilies of the valley, which he purchased for 40 cents. They mingled effectively with the Bride roses, and even the most conservative buyer could find no fault with the price. Peonies are very fine. The crimson and white are just coming in but are a drug on the market.

The rose crop now is in fine condition. Brides and Bridesmaids are particularly choice; but the demand is fickle, for most buyers are "so tired of roses, we have had them all winter," and are decorating their tables and homes with the sweet spring blossoms. Awhile back even the wild violet of the variety known as "Johnny-jump-up," was meeting with a ready sale. The violet season is entirely over now.

There has been very little in the way of large or even small social entertainments, and this makes the flower trade very quiet. There is little prospect of a stronger market until the time of school commencements. Memorial Day is not busy with the florists, nor is the same day observed here that is observed in the north. Here we garland the graves of the gray, there they deck those of the blue. Here it is a great offering of nature's flowers, although the florists usually freely contribute large hampers of their prettiest blooms.

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Cleveland.

Business during the last week has been rather slow with nearly everybody, although it showed a slight improvement over the week previous. The last days of the week were enlivened by cheap sales of roses, carnations and spring flowers in which a great deal of stock was used up without leaving very much to show for it. Excepting some late varieties of tulips, bulbous stock is now about over for this season, leaving the field clear for greenhouse flowers.

The weather has been rather warm of late, and the growers have been hustling to get out their carnation stock.

The libel suit of Leopold vs. Graham, which has been hanging fire for some time, came to trial lately and resulted in a verdict for the defendant, the jury being out but a very short time. A.

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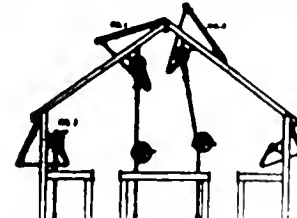
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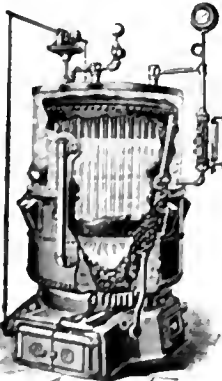


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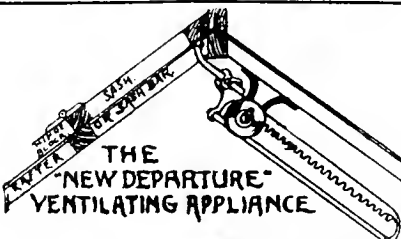
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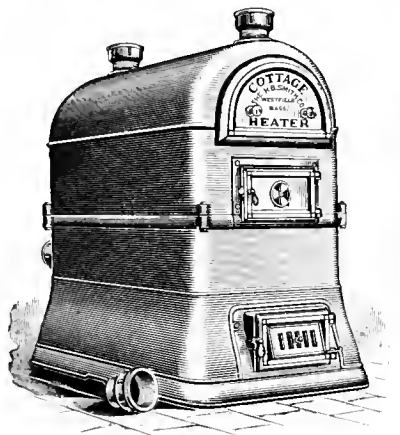
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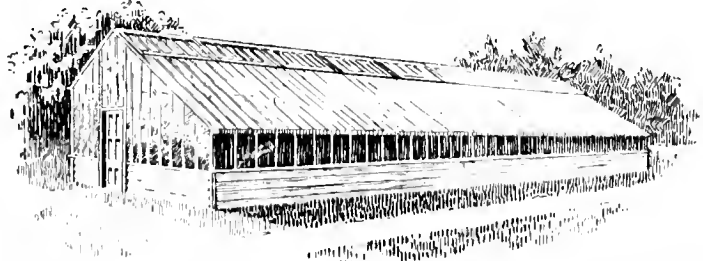
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## THE AMERICAN FLORIST

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THE NEW DIRECTORY of florists, seedsmen and nurserymen of the United States and Canada will be ready for mailing soon. Twenty-five hundred new names. Postpaid for only \$2.

### Experiments with Chemical Fertilizers on Greenhouse Plants.

[Paper read by Professor W. E. Britton before  
the New York Florists' Club, May 9, 1898.]

It needs no argument to show that we live in a progressive age. There is proof of it on every hand. New methods are being advocated, new processes discovered, new contrivances devised, and new articles of commerce placed on the market. Gardeners, however, are said to be conservative men. It is asserted that they grow plants in the same way that they were grown a score of years ago; the compost heap must be prepared after a certain formula, and in potting plants certain rules must be observed or the plants will not grow. However this may be, I do not blame the gardener for his conservatism. He is merely following the highway that experience has constructed for him. He is fairly sure that if he exercises care in preparing his soil, if his seeds are good and the sun shines, that his plants will be a success much more surely than if he adopted every new plan, tried every scheme for fertilizing plants, or threw away his good old soil and attempted to grow his plants in dust, shavings or coal ashes.

I do not know to what extent the commercial or concentrated fertilizers are used to-day by florists and gardeners in greenhouse work. I am led to believe that most growers depend upon the compost heap and the stable for a large portion of their plant food. Many, perhaps all, have used fertilizer chemicals, with various results. If you expect that I am going to tell you how you can use them with absolute success in your greenhouse work, you will be disappointed. As yet we know far too little about the effect of these chemical manures upon the plants, and also too little about the contents of the soil that we use, to ensure a successful culture.

I shall merely give you an account of what we have been doing, and are still trying to do at the Connecticut Experiment Station, to throw more light upon the subject.

At the outset allow me to state that probably plants can be grown with success entirely by chemical fertilizers when we know how to use them. The trouble lies not with the chemicals, but in our ignorance of the use of these concentrated forms of plant food.

In planning the experiments of which I shall speak, it was obvious that a very poor soil should be used or the effect and influence of the varying amounts of fertilizers that we should apply would be masked and wholly lost sight of by and under the influence of the plant food already in the soil. Coal ashes and peat

moss were used by our Director, Prof. S. W. Johnson, in some vegetation experiments previous to the beginning of this work. He found this a good medium for roots to ramble in; it is cheap, easily procured and contains very little plant food.

Peat moss is imported in bales and is used for stable bedding. This has to be torn apart and sifted in order to be mixed with the ashes. About three per cent. (by weight) is mixed with the ashes in order that the soil may hold moisture better, and to improve its mechanical condition. Plants stand in it more firmly than in plain coal ashes. The peat contains no readily available plant food.

Both ashes and peat moss are sifted to pass a screen with four meshes to the inch. For ashes either anthracite or bituminous coal may be used. In preparing this soil the ashes, peat, and fertilizers are carefully weighed out and mixed together thoroughly by repeated shoveling over. A little carbonate of lime (say one ounce for each 100 pounds of soil) is added to neutralize the slight acidity of the peat moss.

The potting soil or compost was prepared by composing good turf with one-third its bulk of stable manure.

These two soils (compost and coal ashes and peat) will be mentioned several times in this paper, and except where otherwise stated have been prepared as just described.

We have found the ashes and peat an excellent medium for use in studying the effects of varying quantities of the fertilizer.

Nitrogen, phosphoric acid and potash are the three fertilizing elements necessary to all plant growth. Of the three, perhaps the most important is nitrogen; the plant uses considerable of it and it is rather hard to obtain. But it is a mistake to suppose that a plant can grow on one or even two of these elements. All three are necessary. Leguminous plants are able to take a portion of their nitrogen from the air, but the vast majority of plants are obliged to obtain nitrogen only from the soil. The potash and phosphoric acid must always be taken from the soil.

There are on the market a great many fertilizers prepared for special purposes. There is a potato fertilizer, a fertilizer for corn, another for use in greenhouses and so on. The more I work with fertilizers the more I am convinced that these special manures are not needed by the average agriculturist. Any fertilizer that contains a good percentage of each of the three essential fertilizing elements will suffice to grow any crop. It is true that different plants require these three

elements in slightly different proportions, but the grower does not know the proportion of these fertilizing elements as they exist in available form in his soil. The proportions vary in different soils and may be nearer right for a certain crop in some cases as they exist in the soil than they are after the special manure has been applied. On some soils a special mixture may be best, while on another it is not. So for the average grower it is probably about as well to use some high grade general fertilizer.

In our experiments, we have used the fertilizer chemicals instead of any prepared commercial brand of fertilizers. Nitrate of soda has been used as a source of nitrogen of which it contains about 16 per cent. As a source of phosphoric acid we have used the dissolved bone black which has about 16½ per cent. of phosphoric acid. Potash has been obtained by using the muriate, which is nearly 50 per cent. potash. We have also employed some cotton-seed meal which furnishes a certain amount of each of the other ingredients necessary to plant growth.

#### TOMATOES.

A study of the fertilizer requirements of the tomato crop as grown under glass was commenced during the winter of 1894 and 1895.

For this first culture two soils were used. The coal ashes and peat moss which I have already described was employed, and compost was also tested beside it. Our first endeavor was to find out how much nitrogen is removed from the soil by a crop grown under glass in the usual manner, and later to ascertain the amount of nitrogen that needs to be in the soil to meet fully the demands of the crop. We studied these questions by growing plants in a soil known to be practically free from available nitrogen. Plots filled with the coal ash soil were given fertilizers varying from nothing to over 30 grains of nitrogen, 30 of potash, and 8 of phosphoric acid. Each plot had an area of 13.87 square feet, and contained six plants.

These plants were seedlings which had been grown in good potting soil and were nearly ready to show their first blossoms when set in the benches. The soil from 4-inch pots was placed in the experimental plots so as not to disturb the roots of the plants. The plants were trained to a single stem and all trimmings saved for analysis. Each ripe tomato was weighed and its weight recorded.

Where no fertilizer was added the plants grew a little taller, but scarcely thicker than when set. The fruit was very small, but perfect in shape and hard and firm. To the taste it was dry and sweet, but somewhat lacking in flavor. It was very light colored.

The plot receiving the greatest quantities of fertilizer produced the largest yield and the fruit was generally excellent, but occasionally a tomato would fail to ripen evenly or perhaps would be hollow-celled. Sometimes a fruit would become soft and assume the normal color of a ripe tomato, except around the stem, where it would be green.

At the times these cultures were made, duplicate plants were set in pots filled with rich compost for the sake of affording a rough comparison between the crops as grown in the two different soils. We were greatly surprised to find that a larger crop was produced by the plants growing in the artificially prepared and fertilized soil of coal ashes and peat moss than was obtained from the seemingly

more natural combination of decayed turf and stable manure.

From these primary tests we learned that our soil of coal ashes and peat moss could furnish some potash and a little phosphoric acid to the plants, but no nitrogen. The analysis of fruits showed that tomatoes grown in such a manner were perfectly normal in chemical composition. Also that in the plot giving the largest yield, the quantities of plant food actually used by the crop was equivalent to 2 lbs. 5 oz. nitrate of soda, 13 oz. dissolved bone black, and 1 lb. 9 oz. muriate of potash for each 100 square feet of bench space. Each 100 pounds of ripe tomatoes removed from the soil the equivalent of 14 oz. nitrate of soda, 5 oz. dissolved bone black and 10 oz. muriate of potash. Four plots with regularly increased applications of nitrogen gave corresponding increases in yield of fruit, in average number of fruits per plant, and of nitrogen, phosphoric acid and potash in the crop.

In this first tomato experiment it was quite evident from a perusal of the figures obtained that the limit had not been reached as regards nitrogen, and that the plants might require more potash and phosphoric acid in order that they might use more nitrogen. So the next season and on to the present time, the experiment has been continued and extended and elaborated.

We have used compost both with and without additional fertilizers, and in every case a better crop was obtained from the compost alone. The addition of chemicals depressed the yield. Until the present season we have always obtained a larger yield from ashes and peat with chemicals, but it is different with the present crop. We have found the maximum limit, and some of the plants are now suffering from an overdose. We reasonably expect to get the best yield from the compost this time.

The best yield last season was made from ashes and peat to which had been added for each 100 feet of bench space 6.4 lbs. nitrate of soda, 1 lb. of dissolved bone black, and 2.4 lbs. muriate of potash. This may be a larger quantity

than can be profitably used in most instances.

The amount of light, the watering and ventilating of the houses doubtless exercise considerable influence upon the vigor of the plants, and on these conditions probably depends to some extent the ability of the plant food to obtain and use the plant food of the soil.

#### RADISHES.

The fertilizer requirements of the radish crop as grown under glass has also been the subject of investigation. A somewhat critical study was made during two seasons, in three kinds of soil—compost, coal ashes and peat, and coal ashes without peat. Compost was used both with and without the addition of fertilizer chemicals. The results are rather curious. Coal ashes alone can not be recommended as a soil for radishes, but when 3% of peat is added it makes a good medium. In every instance, the first season, radishes were ready to harvest from one to four days, and the second season from one to two weeks earlier than the plants grown in compost. They were smoother and the quality was not inferior. We pulled the radishes when three-fourths of an inch in diameter, and bunched them ten in a bunch. One thousand such bunches can be grown on about 50 square feet of bench space, and take from the soil the equivalent of 2 lb. 1 oz. of nitrate of soda, 10 oz. dissolved bone black and 16½ oz. muriate of potash. The radish is less particular as to the amount of chemicals applied in the fertilizer than some other plants.

No very great difference occurred between plots having different amounts of nitrogen, phosphoric acid and potash. The tops were slightly larger where large amounts were given, but the bottoms were ready to harvest at about the same time. To the soil of coal ashes and peat add for each 100 square feet of bench space two and one-half pounds nitrate of soda, the same quantity of dissolved bone black and one and one-half pounds muriate of potash, thoroughly mixing the fertilizer with the soil. This will grow three successive crops of radishes. If seed



DENDROBIUM PHALAENOPSIS.

be planted between the rows when the first crop is nearly half-grown, and the practice followed, four crops can be taken from the soil during the same period required to produce three successive crops.

Compost alone produced as good crops as where additional fertilizers were employed.

Similar experiments have been conducted with lettuce and cucumbers. Cucumbers were a success in coal ashes and peat moss with chemicals. From a bench space of 100 square feet ninety-nine pounds of cucumbers, averaging 7.4 ounces each were obtained, as against eighty-five and a half pounds with an average of 7.2 ounces each from the compost soil.

But we have never been able to grow as good lettuce in ashes and peat with chemicals as in compost with stable manure.

A possible reason for this may lie in the fact that lettuce is more particular regarding the physical condition of the soil than some, and perhaps most, vegetable crops.

A year ago we grew Boston Market lettuce in three plots on the same bench. The plots were filled with coal ashes and varying quantities of peat moss. The first contained 6% by weight, the second 9% and the third 12%. Fertilizers and all other conditions were the same in all the plots as far as it was possible to make them. The best lettuce was produced where the largest percentage of peat moss was added.

[TO BE CONTINUED.]

#### Dendrobiums for Florists.

There is no dendrobe in the whole long list that can equal the old *D. nobile* for commercial purposes; it is easily propagated, grown and flowered, and can be kept in good health indefinitely. If a number of plants are purchased, they may be had in succession from Christmas to May, or even later; but this late flowering interferes with the growth for the following season, and plants that are to flower next year early ought to be already started to grow so that they may have a good rest after growth.

*D. phalenopsis* is another fine species, bearing its flowers in elegant sprays during the late autumn and winter months. The colors are rich and varied, but the truth must be told, namely, that it does not improve with the cultivator. It is quite common for it to deteriorate after the first two or three years under cultivation. The plants will probably have paid for themselves by that time, but it is very unfortunate that we cannot keep it easily. However, all of the dendrobies that come from Australasia are similar in this respect.

*D. formosum* is a well known kind commonly seen in collections, but there is a near relative, *D. jamesianum*, that requires but a cool greenhouse temperature to grow it. The flowers are almost as large as in *D. formosum*, and quite as freely produced year after year from the same stems; they are pure white with a bright red spot on the lip. It is a very desirable plant, and has been aptly described as an alpine form of *D. formosum*, which it resembles in all its parts except that they are smaller and more slender.

*D. wardianum* is to my mind the best dendrobium ever discovered; the richness of its coloring, the long slender bulbs covered more than half their length with bloom is a sight that makes glad the eyes of all, be they cultivators or buyers. *D. wardianum* requires similar treatment

to *D. nobile* when in growth, but when at rest loses all its leaves before flowering. It is a mistake to keep orchids in a steaming, stifling temperature and expect them to grow vigorously. Give them plenty of air at all times when practicable, and in the summer months let it remain on day and night; shade from the hot sun and never let them want for water until growth is completed; then gradually lessen the quantity as the sun decreases in power, and there will be no trouble in growing the above dendrobies profitably. E.

encouragement for a chrysanthemum show than for one of our popular annual, and so our county society has planned for the latter only. Our Springfield Amateur Horticultural Society, which is the real working society of this city, usually gives a June and a fall show. This latter society had phenomenal success last June in the matter of drawing a crowd, and, indeed, being an amateur society, we devise every way to keep our work near the hearts of the people.

The schedule for the sweet pea show grows more interesting every year. The



KLEHM'S GONTIER ROSES.

#### Gontier Roses at Klehm's Nursery.

Remarkable success has been achieved with Papa Gontier roses at Klehm's Nursery, Arlington Heights, Ill. The plants are grown in a solid border, and although now six or seven years old they have never failed to produce a good crop of extra fine flowers for the Christmas holidays. A fair amount of blooms are obtained during the winter, and a full crop again at Easter. The plants are at all times grown cool, and ventilated as freely as carnations.

#### Sweet Pea Notes.

Blessings on your valuable column for every encouragement given to the sweet pea. We hope that this royal flower will long hold her court at Springfield, Mass., and surely she is preparing to do so again this year. We never need to thresh over old straw to get something worth writing about this flower.

Our Hampden County Horticultural Annual is out, and it is little else than a sweet pea report and schedule of our 1898 sweet pea show. With us there is less

Eckford challenge cup, which was offered for the first time last year, is open to competition again. It must be won twice to be permanently owned. Mr. C. M. Hartzell, of Holyoke, Mass., took it last year. I have just been looking over his rows as planted March 17, and they bid fair to crowd the other fellows hard. I see that he uses level culture, planting two inches deep. Even the Eckford sealed packets he puts right into the ground, and they have germinated finely. I can not do that in my soil. It was peculiar that while Mr. Hartzell's vines last year were spoiled for the time by the fifteen inches of rain that we had in July, they rallied so that he made a fine showing in August; most people suffered total disaster.

The experience of W. J. Eldred, another close competitor, goes to show how all our self-flattered efforts at scientific work are sometimes as unreliable as the whims of a coquette. He planted one-half his stock at home where it would have every attention, and where it did splendidly the year before, and the other half up in the country where it had to take its chances. When blooming time came a man was

never rewarded with a meaner mongrel mass than those home rows showed, while a magnificent showing came to the exhibition from the up-country rows. For some occult reason, in spite of intelligent work, the peculiar season destroyed the identity of almost every variety, while the same seed up in the country, where it came later into bloom, gave blossoms true to a dot.

We find it very difficult to fix a satisfactory date for our sweet pea show. Usually our best growers are ready by the second week in July, but two weeks are generally allowed for the tardy ones, a generous concession made by the former at the expense of their exhibit. This year we have put the date July 20 and 21.

At the last show a committee of three excellent judges consisting of O. H. Dickinson, L. D. Robinson and W. J. Eldred was appointed to select a list of sweet peas most desirable for general culture. They named the list in three sections of a dozen each. On the whole it is an admirable choice, but cannot be expected to tally with everybody's judgment. The first dozen are: Aurora, Blanche Burpee, Blanche Ferry, Burpee's New Countess, Firefly, Golden Gleam, Her Majesty, Lovely, Maid of Honor, Royal Rose, Stanley and Venus. The second dozen are: America, Captivation, Countess of Aberdeen, Dorothy Tennant, Katherine Tracy, Lady Penzance, Mikado, Mrs. Eckford, Prima Donna, Ramona, Waverly and Gray Friar. The third dozen are: Apple Blossom, Brilliant, Coquette, Captain of the Blues, Duke of Clarence, Emily Lynch, Lottie Eckford, Meteor, Mrs. Joseph Chamberlain, Mars, Ovid and Senator.

It is unfortunate that Mr. Eckford's recent introductions do not keep pace with the growing interest. Last year's advance list will probably show better form this year, but almost no novelty in color. This year's set will put us a little further along in three popular colors, the bright rose, the orange and the deep maroon. I am sorry to find that Chancellor, the new bright orange, is a poor germinator.

The California novelties give us more originality. The creamy buff shades of the Burpee set and the dark prune blue of one of the Sunset Co.'s novelties are excellent. Mr. Walker is on the road to novelty production, but not there yet. I object to cluttering up the list with striped sorts unless they are of decided merit. We shall bring discredit on the novelty business unless the stripes are given a decidedly inferior value to the self colors. The shifting nature of all the stripes almost debars them from a title to rank with named varieties. I wish they might go under the name of the selfs to which they belong with the prefix "striped." Otherwise we double the list of names. Of course anything that can win a certificate should have its own name.

It is too early yet to tell whether the American Sweet Pea Society will take shape this year. Probably an attempt will be made at Springfield in July to launch it on its history. My already busy life forbids that I should be enthusiastic about this organization, but I sincerely hope that we now have a sufficient working force on this flower to push it into the dignity of a national society. When such a section of the country as that lying between Rochester, Ithaca and Elmira, N. Y., shows an enthusiasm in any flower we may be sure it is a flower that has a future. Both Cohocton and Elmira are stirred in preparation for sweet pea shows this year.

Our Springfield schedule shows one encouraging feature, that the prize money on which such a show must depend comes in good measure from the seedsmen. This is more likely to become a permanent feature than other methods of raising money. The large growers in California also offer generous assistance which does not appear on our schedule.

Until within a few days my plans were made to again visit C. C. Morse & Co., Santa Clara, Cal., this year, but their latest word reports such a disastrous drought that it will probably be better to postpone the visit till another year. Their novelty work was what I had been invited to come and look over, and I was expecting a rich treat. Unless they had two inches more rain before May 1 the outlook was very disheartening. It would now seem inevitable that there will be a great shortage in all seed crops. In the one item of sweet peas the contracts made led to the planting of a large acreage, but the last advices from there report the shriveling vines as past redemption unless a two-inch rainfall comes to their relief. It was Mr. Burpee's plan also to be there. In my last trip to that state nothing impressed me as more beautiful and grand than the immense blanket of seed stock in different stages of growth, blocked into all shades of green, and lit up with great sheets of color. It is a sight that well pays for the long journey.

But while drought is afflicting them, there is no drought in the east. We are longing for the daily drizzle to cease and the sun to again shine forth. A kind providence favored us with a phenomenal March. I planted my sweet peas the 15th of March, a date earlier than I could ever plant before. But we have had our March in April. W. T. HERRINGTON,  
Massachusetts.

#### A Missouri Success.

George M. Kellogg, president of the Maplewood Cut Flower and Plant Company, of Pleasant Hill, Mo., has achieved no inconsiderable success as the accompanying engraving will show. The entire 10,000 square feet of glass is devoted to the production of cut flowers, and the

quality of the crop invariably finds for it a ready market.

#### New York.

FLORISTS' CLUB MEETING.—INTERESTING LECTURE AND DISCUSSION ON FERTILIZERS.—ABOUT JADOO.—A TREAT IN STORE FOR THE LADIES.—BUSINESS QUIET.—A FLORIST ARRESTED.

At the meeting of the Florists' Club, Monday evening, there was a very light attendance. Prof. Britton's address on the subject of chemical fertilizers, which we publish in another column, proved to be very interesting, not only because of its thoughts but on account of the easy manner and pleasant delivery of its author. A number of photographs, illustrating various experiments were passed round during the lecture. At its close, President Plumb, in thanking the lecturer, expressed a desire to know something of Prof. Britton's experience with the fertilizer known as jadoo, which brought Secretary Young to his feet with an inquiry as to whether the difference in value between German peat moss and jadoo warranted the great disparity in price of these two articles. Prof. Britton replied that he did not wish to say anything to hurt the business of the Jadoo Company but that he thought the price of jadoo rather excessive. This material, he said, was German peat moss lightly fertilized, and, being very wet when delivered, was found to contain 68 per cent. of water. After being dried out and analyzed it showed less than 1 per cent. of nitrogen, phosphoric acid and potash. No doubt flowers would grow in it, but if he were a florist he would make his own material, simply taking peat moss and impregnating it. The patent does not give any formula, the only specification of importance being the process of boiling the material, which, in his opinion, did not add to its value for plant growing purposes.

President Plumb said that he had tried jadoo and found that roses did not make a root in it; Farleyense ferns did well but not any better than in ordinary compost, and he thinks he can get along nicely without it. H. A. Siebrecht added his testimony to the effect that he had tried several tons of jadoo. It soured and became stagnant after a little while. He found it useful as a sub-drainage over the broken crocks in repotting plants, the new roots seeming to take to it, but chopped up sphagnum moss and fertilizer gives the same beneficial effect, and the latter can be bought for \$7 a ton.

A. Herrington remarked that mother earth never went back on us yet, and that, without doubt, we have been paying too much attention to the medium used as a potting material. He had tried jadoo and other special preparations and came to the conclusion that while it might be very useful for amateurs with a



ESTABLISHMENT OF THE MAPLEWOOD CUT FLOWER AND PLANT COMPANY, PLEASANT HILL, MO.



few plants, it will not appeal to the practical gardener so long as he has the unlimited resources of the earth. Replying to an inquiry by Mr. Wallace, Prof. Britton said that the adhesion of the petals in carnation buds, which had been attributed by some to excessive nitrogenous food, still remains a mystery for which he is unable to offer any explanation.

W. J. Stewart announced on behalf of the essay committee that Prof. Louis C. Elson, of the New England Conservatory of Music at Boston, will deliver a lecture before the club on "Flowers and Music" at the June meeting. This being the closing meeting of the season the committee has decided to make it a ladies' night and provide strawberries and ice cream in recognition of the presence of the fair sex for the first time in the club's history. On account of the wide popularity of the lecturer and the limited size of the hall it will be necessary to limit the attendance by the issue of tickets of admission, probably three to each member of the club.

The president announced the death of J. D. Burnett, of Madison, and a vote was taken instructing the secretary to forward resolutions of condolence to the family. An invitation from the Educational Alliance to co-operate with it in giving a spring exhibition was declined, and a like proposition from the Gardeners' Society for a fall show was referred to the exhibition committee. On the exhibition table were some Rex begonias and a new oncidium of the Cavendishii type from W. A. Manda, to each of which the committee awarded 75 points. Signor C. Gnarro entertained the club with patriotic and other airs on the organ.

Business has settled down to a steady gait, not equal to the average for May, but better than the conditions of two weeks ago would lead one to expect. The war has become less of a sensational matter, and people have arrived at the conclusion that it is possible to go on with business as before regardless of whether there is war or not. Decorations and events of special magnitude are rare, the greater part of the demand for flowers coming from small orders for everyday happenings.

P. Kontulis has been arrested, and held in default of bail, on complaint of Julius Rochrs, who alleges that Kontulis contemplated disposing of his business and defrauding him and other creditors.

#### Carnations.

With a great many growers May might well be termed the month of disappointment. At least it seems to sellers of rooted cuttings as if this would be the true term to apply, for orders are coming in daily for stock of which they are sold out, and the orders have to be filled in part only or returned entirely. The sender of the order by the time it is returned and he gets it off to another grower of cuttings is more than likely to have it returned unfilled the second time, and very often he will take stock which he did not want in order to make up the number required for his place. Next winter the space that should be devoted to the best variety of its color will be taken up with a second rate sort and quite a difference will be returned in profits, all because an order was not placed in time.

Right now it is well to make a mental note of this and resolve to not be caught napping next season. There are of course a number of growers to whom this does not apply, and their number will be increasing every year; but there are many

to whom it does apply, and to these it is usually either a disappointment or a direct loss. Occasionally you will see a nice lot of stock and be told by the grower that the cuttings were propagated late in May and planted out in June, but in spite of this fact if you will call at the same grower's place about March of the following year you will find that he is propagating his stock then and not waiting until May, as his success with May struck cuttings might lead you to think he would.

A rooted cutting taken from the sand as late as May 15 or June 1 will probably make a good plant by fall if given the best of care and attention. Where a variety is very scarce it is of course better to have such cuttings than none at all; but whether you buy them or grow them yourself, do not expect a good plant unless you are willing to put extra labor and expense on them. With the exhibitions given by the various florists' clubs, and the meeting of the Carnation Society in February, and the full reports of all these happenings in the trade papers, the grower of cut carnations can easily make up the list of varieties he wants to grow for the next season, and how many he wants of each, by the first of March. Then is the time to start propagating or to arrange to buy them. Attending to the matter at this date leaves a little margin for delay and you are reasonably sure of getting what you want.

Many growers do not have the room to grow their young stock on if propagated or bought so early in the season, but that is no excuse for leaving the ordering of it until May, as there are plenty of cutting growers who will be willing for a consideration to grow them for such parties and hold them until ready to plant out. As a buyer I would much prefer to take care of my own stock, and anyone who wants to grow carnations and make money out of them would do better by arranging to have the room necessary for planting or potting up their young stock and growing it under their own care and supervision.

There is another thing that is forcibly brought to our attention this month, and that is the lack of promptness so common among florists in answering their letters. At this late date it is very important both to the buyer and seller of cuttings or plants that their letters be answered at once. The man wanting the cuttings is entitled to a reply at once if the order can not be filled, and the man who has them to sell is entitled to the same treatment, as it is getting late and he may miss an order by waiting for your reply. It will not hurt any of us to look a little farther ahead than we do in our business and be a bit more prompt in our dealings with each other. ALBERT M. HERR.

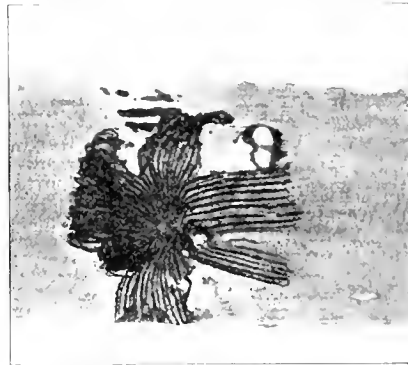
#### A Curious Blemish Upon Dracaena Leaf.

A few days ago a leaf of a dracaena came into my possession for study. Upon the upper side and midway between the tip and base was a peculiar blotch an inch and a half across, not easily described. In color it was almost black and showed lines, darker than the other portions, that seemed to radiate from a central point. One person said that it must be the April fool work of some mischievous lad who was handy with a brush and had access to a paint pot and the greenhouse where the strange mark was found.

A microscopic examination of the blotch, however, revealed the fact that the "paint" was composed of spores along with enough of colorless substance to

glue them quite securely to the leaf. These spores are oval and make up the dark lines, while a less number are scattered between these small ridges.

From this it is concluded that the very striking disfigurement of the dracaena leaf is due to a fungus, and as it has no more than a surface attachment and the leaf is not injured by it, the suggestion comes that the growth, whatever it may be, fell upon the leaf and had become dried



out when and where it was found. The color of the blotch and the size and shape of the spores confirms the opinion that the fungus is the remains of a toadstool that may have grown somewhere above the plant and fallen from its place of attachment in such a way that the cap became spread out upon the leaf where it adhered, as shown in the accompanying engraving.

If we wished to be more particular it might be said that the toadstool was one of the small ones that flourish for a day and then wilt away leaving only the spores. Some of the genus coprinus are of this type with the spores nearly black and when in the moist condition and about ready to collapse will drip black drops that have been used for ink.

BYRON D. HALSTED.

#### Philadelphia.

BUSINESS IMPROVES BUT PRICES SHOW LITTLE CHANGE.—LATE STOCK IS VERY GOOD.—THE THEATRICAL BENEFIT.—PERSONAL AND OTHERWISE.

Business, which has been anything but good, even for the season, is showing a considerable improvement since fine weather arrived. As a matter of course flowers are plentiful; outside lilacs are offered in quantities and sell well. Dogwood is in full blossom and helps out many a decoration.

Prices are about the same as last week; \$4 to \$6 for tea roses; Beauties from \$4 to \$25 per 100; \$2 per dozen buys all but the extra long-stemmed stock, a few of the fanciest of which are held for \$4 per dozen. Carnations range from \$1 to \$2 per 100, a few fancies bringing \$3. Whites have been the best sellers of late.

There are quite a few longiflorum lilies on the market, Westcott Brothers and Robert Craig each having a house of late ones. Neither lot shows any disease to speak of.

Mr. Craig, on a visit to Lancaster, Pa., last week, saw some very fine houses of Mme. Albertini. They were grown on the benches continuously and were not planted outside. Quite a few growers are advocating this plan and say that they get the best results from this mode of treatment. Mr. Murray, of Atco, is sending in some Lizzie McGowan which would be hard to beat with even the best

of the new whites. The stems are particularly strong; the flowers are large and are of the purest white. Hugh Graham's Victors are also as good as at any time this season.

George Faulkner and Wm. Falk, the janitor of the club room, both of whom went with their regiments to the recruiting rendezvous, have returned.

The theatrical benefit of the Florists' Club at the Walnut street theater last Wednesday was a great success. A sum was realized nearly sufficient to pay for two large trophy cases which will be erected in the club room in a few days. A number of bouquets contributed by the members of the club were presented to the actresses during the play and the stage was decorated with palms and vases of American Beauty roses.

W. K. Harris has been on the sick list again the past week, but we are glad to be able to say that he is improving and will soon be able to leave the house.

Thos. Cartledge, who has been unable to attend to business all winter on account of ill health, does not seem to improve, the spring weather not having the effect that was hoped for. The past week has been a very trying one, he having suffered severe sinking spells which have greatly taxed his vitality.

Pennock Bros. are about to put a new wagon on the street. It is quite up to date and will help in keeping up the standard of the delivery service, which is now considered of so much importance by all the retail dealers. K.

#### Boston.

MAY EXHIBITION.—FINE CALCÉOLARIAS AND RARE ORCHIDS.—PLANT TRADE LIVELY.—CUT FLOWERS QUIET.—PARK WORK PROGRESSING.—DEATH OF MISS FITZPATRICK.—GEORGE MULLEN IS MISSING.

The May exhibition of the Massachusetts Horticultural Society was a good one. The calcéolarias were remarkable for size, uniformity and variety of color. There were forty specimens averaging about three feet in diameter. Mrs. B. P. Cheney (John Barr gardener) took first and third prize on six, Dr. C. G. Weld (K. Finlayson, gardener) second and J. S. Bailey (Wm. Donald, gardener) fourth. On specimen plants Mr. Bailey was first, Mrs. Cheney second and E. T. Converse (D. F. Roy, gardener) third. Show pelargoniums from N. T. Kidder (Wm. Martin, gardener) and ivy-leaved geraniums from John Jeffries were excellent. J. L. Rothwell (John Mutch, gardener) showed a handsome group of orchids and Dr. Weld displayed Indian azaleas. J. L. Rothwell also exhibited a blooming plant of *Phalaenopsis Harriette*, a cross between grandiflora and violacea, said to have been a part of the Corning collection, and which the judges decided to honor with a certificate of merit, which was, however, declined by its owner as an insulgent recognition. The cut flower displays were large and brilliant. Tulips from W. S. Craig and H. A. Wheeler, hardy narcissi from Dr. Weld and W. S. Craig, a superb show of pansies from M. H. Walsh, of the J. S. Fay estate, and promiscuous collections of carnations, primulas and pelargoniums from W. S. Craig, James Cowley, Rea Bros., Mrs. E. M. Gall and others helped to fill the tables. From C. G. Roebbing, of Trenton, N. J. came a bloom of *Cypripedium Lawrenceanum* var. *Hyemum*, a beauty in white and green, which received a certificate of merit. There were several large and interesting collections of wild flowers.

The most active people just at present are the plant dealers. The long spell of cold, rainy weather had a very discouraging effect on the plant trade, and now that the days are seasonably warm and bright and people are encouraged to improve their gardens and dooryards, the demand comes all in a rush, and bedding plants will have the right of way until the end of the month. The cut flower business is quiet, the only activity worthy of the name being in the demand for white flowers. So for the present Brides are in better demand than Bridesmaids and bring a better price; white carnations hold the lead over all the colored ones, and thus it is all through the line. Outdoor tulips, daffodils, hyacinths, pansies and shrub blooms are now available for all uses to which promiscuous colored material may be put, and conditions are likely to remain as they are until Memorial Day comes.

A great amount of work has been done, and well done, this season in the Boston parks. Something like 100,000 trees and shrubs have been planted, a portion as new plantations and a considerable part as replantings where the work was improperly done originally. The borders and groups of the Back Bay Fens have been given a needed overhauling and sunlight and air have been admitted for the first time in years to the tangle of overgrown and dead branches. In the meantime the critics wax frantic and are organizing on all sides for war upon park commissioners and superintendents who are doing conscientiously and thoroughly the work entrusted to them, basing their work upon practical experience and common sense rather than sentiment, and knowing that a few years will demonstrate the wisdom of their methods.

Miss Minnie Fitzpatrick, who has been for many years bookkeeper for W. E. Doyle, died on May 8 after a brief illness. She was a niece of Mrs. Doyle.

George Mullen, formerly in the wholesale and later in the retail flower business, is missing. He has been in financial difficulties for some time.

Jackson Dawson is recovering from his illness and hopes to be all right again soon.

D. Hartford is about to open a floral store at 143 Portland street.

Geo. A. Sutherland is receiving fine Cape violets.

H. A. Siebrecht, of New York, is a visitor this week.

#### Chicago.

BUSINESS DULL.—THE FLORISTS' CLUB MEETING AND DISCUSSION.—PROSPEROUS SEASON ANTICIPATED.—BUDLONG'S NEW STORE.

Business continues dull. Fewer roses are coming in than a week or two ago, and the Brides and Bridesmaids from some of the growers are badly mildewed. The cut of roses will gradually become smaller from now on till the crop begins to come in from the young plants which are now being planted. Many growers have already replanted a large number of their houses. Preparations are being made for a large increase in trade which the growers around Chicago generally expect next season. Carnations, especially of the new and better varieties, will be more largely grown than ever.

Panics are in the market, and red othemalis is to be had in quantities. The later varieties look very promising, and several large lots will be about right for Memorial Day.

The meeting of the Florists' Club Friday evening, May 6, was an event

that will be long remembered because it was the first meeting in the new rooms, and on account of the large number of applications for membership which were received. Edward Winterson presented ten applications and C. W. McKellar offered a list of six, all of whom were elected. The subject for discussion was "Palms, Ferns and Decorative Plants." Ernst Wienhoeber opened the discussion with remarks from the standpoint of a retailer and decorator. He finds the renting of plants by the load for decorative purposes very unsatisfactory to the dealer who sends out only good plants, as the value of a load such as are rented at from \$10 to \$15 is from \$60 to \$200. The cost of taking them from the greenhouse, arranging them in a decoration and returning and re-arranging in the greenhouse is fully one-half the amount received, while damage to plants is always considerable, and often double what is received as rental. Mr. Wienhoeber finds that of palms, Kentias give the best satisfaction for house culture except perhaps *Cocos Weddelliana*, which, until recently, he has been unable to get in quantity of suitable size. The latania is more generally liked than any of the palms, but in house culture it has not the keeping qualities of Kentias, the points of the leaves soon turning brown and becoming unsightly when trimmed. *Livistona rotundifolia* gives even less satisfaction than *Latania Borbonica*. *Nephrolepis Bostoniensis* has given excellent satisfaction as a house plant, as has *Polypodium aureum*. A. McAdams called attention to the fact that *Cyrtium falcatum* is one of the best of all ferns for house culture, it being good in all stages of growth.

After the club meeting, the bowlers enjoyed an inning at the alleys. Two games were played, the team captained by Ed. Winterson winning both, but the high score, 188, was made by Robert Schenk, captain of the opposing team. The bowlers will, hereafter, play every Friday night.

There will be panics from now on till July or later, and the crop promises to be larger and better than usual. Memorial Day will be more generally observed this season than usual as there will be more flowers and flowering plants than ever before in the history of the trade. Every grower who has a crop of flowers or plants suitable for the occasion will be sure of a good market. There has been very little bedding done, and orders for bedding plants are coming very slowly. The stock of geraniums and other bedding plants this season is very large, and good 3-inch plants are sold on the street at from 75 cents to \$1 per dozen.

J. A. Budlong, of Bowmanville, has rented a store in the basement of the Atlas Building, on Randolph street, near Wabash avenue, where, after May 15, he will sell the cut flowers produced in his greenhouses. John Zeck, formerly with Reinberg Bros., will have charge of the store.

The Chicago Flower Mission opened at 26 Van Buren street on Tuesday. The ladies in charge collect flowers to send to the hospitals and, while expecting most of the flowers to come from amateur growers, will be pleased to receive blooms from other sources.

Visitors: A. Dinmoek, representing F. Sanders & Co., of England and Belgium; Wm. J. Stewart, Boston, Mass.; Wm. F. Gude, Washington, D. C.; J. J. Van Waveren, of L. Van Waveren & Co., Hillegom, Holland, J. Austin Shaw.

J. T. A.

**THE AMERICAN FLORIST**

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wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.  
Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

JOSEPH HEINL, of Jacksonville, Ill., has sent us a package of fine young Irish junipers, from cuttings placed in sand last December.

E. C. AMLING, of Chicago, sends us copies of a useful telegraph code, and a card stating his methods of business, the latter beautifully decorated with "Old Glory" in gold and colors.

THE present season is notable for the number of new greenhouses which are being erected in all sections of the country. The long list of such changes and additions published in our last issue is supplemented by a number of others today, and we shall be pleased to note all new structures, with their dimensions.

WE have seen some promising new carnation blooms which were sent to Chicago by Henry A. Niemeyer, of Erie, Pa. Snow Queen and Uncle Sam were particularly attractive. The former is a pure white seedling, cross of Silver Spray and Lois J. Haettel, and has never shown a trace of rust. Uncle Sam is a pink and white striped. Other varieties included Pluto, magenta, and Rob Roy, a scarlet sport of Portia.

**S. A. F. Officers at Omaha.**

President Gude and Secretary Stewart, of the S. A. F., arrived in Omaha May 12, to complete arrangements for the forthcoming convention. After the meeting they were given a banquet by the local Florists' Club.

**The Newport Photograph.**

Members of the Society of American Florists and others desiring copies of the group photograph taken at Newport last August are informed that the undersigned has obtained possession of the original negative, and copies of same can now be supplied at one dollar each.

WM. J. STEWART, Sec'y.

67 Bromfield street, Boston, Mass.

**Cut Flower Price Lists Received.**

Bassett & Washburn, Chicago; H. L. Sunderbruch Co., Cincinnati; Holton & Hunkel Co., Milwaukee; Wm. F. Kasting, Buffalo.

**Catalogues Received.**

George C. Watson, Philadelphia, Pa., seeds; W. J. Hesser, Plattsmouth, Neb., plants; W. J. Godfrey, Exmouth, Devon, Eng., carnations; Van Til-Hartman, Hillegom, Holland, bulbs; Paul de Schryver, Loochrysty-Ghent, Belgium, plants; Henry Merryweather, Southwell, Notts, Eng., plants; Lawler Water Feed and Damper Regulator Co., New York, N. Y., boilers and steam fittings; Frank Banning, Kinsman, O., seeds.

**Greenhouse Building.**

Fairfield, Me.—A. F. Gerald, one conservatory.

North Beverly, Mass.—George Glines, one greenhouse.

Kansas City, Mo.—Albert Barbe, one greenhouse.

Bristol, N. H.—S. D. Fellows, range of greenhouses.

Derry, N. H.—Mrs. Cullen, one greenhouse 18x100. Frank Corson, one greenhouse.

Brooklyn, N. Y.—P. Wagner, two greenhouses each 17x100.

Baltimore, Md.—M. Richmond, three commercial houses each 12x190.

Stoneham, Mass.—A. Christensen, two carnation houses, each 20x100.

Helena, Mont.—State Nursery Co., one greenhouse 12x53 and two greenhouses 16x129.

Morristown, N. J.—Elwyn Waller, 200 feet of rose houses, from plans of F. Waller; H. W. Gibbons, contractor.

NORTH ORRINGTON, ME.—George Nichols is rebuilding the range of greenhouses which was recently destroyed by fire.

ISHPEMING, MICH.—The Ishpeming Floral Co. is making a number of additions and improvements at its greenhouses on Third street. Carnations, particularly, are to be grown on a more extensive scale.

BANGOR, MAINE.—Adam Sekenger is building two new greenhouses, one 40x100 for roses, the other 20x100 for carnations. He finds bedding plant trade brisk, and is selling pansies as fast as he can fill the orders.

LEOMINSTER, MASS.—For a number of years, Geo. M. Kendall has been erecting substantial forcing houses for market gardeners in various sections of the country. He has now extended his facilities for the construction of florists' greenhouses, and will, in future, make a specialty of this kind of work. New England offers a good field for this enterprize, and Mr. Kendall's establishment is the first in this line east of New York.

**Buffalo.**

MOVING TIME IN THE BISON CITY.—TRADE RATHER LIGHT.—KASTING'S HEADER.—NOTES.

Trade in Buffalo this week has been confined to the up-town and down-town stores. Scott, Anderson and Adams were busy moving into new and more suitable quarters and the two columns in the papers which are usually sought for by the florists were not over-worked.

Wm. Scott removed to 546 Main street, in a larger and more commodious store, from which all kinds of artistic floral work will be sent out.

S. A. Anderson spent a few days and dollars the past week in New York and Philadelphia to make his new store more attractive.

W. A. Adams removed from 452 Main street to 479 Main street, the store formerly occupied by Scott, and will make numerous alterations.

Our hustler, Kasting, of wholesale fame, as usual wants to be head first in everything, even in bicycling. He took a header in that the other day by reason of his foot breaking. Damage, one brown hat, 98 cents; skin off hand, amount not given.

D. B. Long is out with another new and very neat design in floral blotters.

A. R. Webb, of Corfu, called on the craft

this week but did not say how many carnations he was cutting.

W. J. Palmer's Daybreaks still keep up their record of all winter, with large blooms and very good color. A.

**The First Fire of the Florists' Mutual.**

On April 13, the Florists' Mutual Fire Insurance Association sustained its first loss on the greenhouses of the Clinton Floral Company, of Wilmington, O. The policy was mailed from this office on the 9th of April. Under the by-laws the policy was in force from the time it was deposited in the mails here. The policy was not received by the Clinton Floral Company until April 14. On the night of the 13th it sustained a loss by fire aggregating on the furniture, plants, buildings, etc., about \$1,200. The insurance policy covered only the buildings, including the heating apparatus. Notice of the amount of the loss was received by the secretary on the 18th of April. I immediately went to the scene of the loss and adjusted the same on the 20th satisfactorily to the insured for \$465. The proofs of the loss were sent to the president of the association. On the 28th I received word of his approval of the adjustment, and I wired the Clinton Floral Company that their draft for the amount of the loss would be honored by the association's treasurer, which was promptly done. I believe all losses can be adjusted as promptly as this one was and with equal satisfaction to the association and the insured. All we need is the full cooperation of all the florists of America.

I will gladly give full details to anybody who will write in relation to the same.

W. J. VESEY, Secretary.

Ft. Wayne, Ind.

**The American Carnation Society.**

It is none too soon to begin to shape the course to be pursued when this society meets in Philadelphia for the second time in its history, which will be in February, 1899. It is absolutely necessary that this society should hold an exhibition both of the "future greats" and also of the standard varieties for the purpose of comparison, if for no other, to aid us in determining wherein the advances are made, if any, in the new candidates for public favor.

A much larger number of enthusiasts are now dabbling in the raising of seedlings than there were at the society's initial meeting held in this city in October, 1891, and the number is likely to increase rather than diminish, and the A. C. S. and its friends must do all that is possible to aid and encourage the improvement of the flower, which is the cause of its existence. I can only wish that some fertile brain would conceive a plan that would be sufficiently practical to put money into its coffer, yet not cripple or in any way interfere with its effectiveness.

When the society had agreed to meet in New York to complete its organization, the executive committee decided to secure the services of an expert stenographer so that as complete a report as possible of the meeting would be given to the members who were unavoidably absent, to be published in the proceedings. A mistake, however, was made in the selection of the performer, for the merest tyro present could have made as complete a report from memory a month after the meeting had adjourned as was done in this case. This, of course, was naturally disheartening, and the idea of making a similar attempt again was abandoned for the

time, especially as the trade papers published everything good, bad and indifferent that was done at the meetings in the two or three succeeding weeks following. This sapped the life-blood out of the society, and the membership gradually fell off, until now, although everybody will admit that it is doing a grand, good work, it is dependent largely upon charity for its existence. The best work is not generally accomplished by an individual or by an organization that is an object of charity. The man who is self-sustaining, and is so by honest labor and persistent effort, no matter in what calling, and does not owe a dollar in the world, is generally a better citizen than is he who is a tramp or an inmate of an almshouse. My own opinion is that the province of a trade paper is to review the proceedings of the meetings devoted to any or all of the branches of horticulture to which it may be devoted; not from a literary standpoint, but unmistakably from a practical point of view, and not to confiscate the whole proceedings.

Personally I am gradually dropping out of carnations, as a grower of this favorite flower, not because I love the carnation less, but because I am more successful with roses and some other plants. I still, however, retain my interest in the organization of the A. C. S. The published proceedings of the last meeting were received last week, and the improvement in the report is quite noticeable, at least over that meeting which was held in New York in November, 1891. Of course, most of that which is contained therein has appeared in print before, but one great point which, so far as I have been able to observe, has escaped the alert minds of those who seem to have no other object in view than to claim everything readable in sight. I refer to a point brought out during the discussion upon "Sub-watering." Most old-time gardeners and florists look upon this sub-watering idea with more or less antipathy. In the first place, it seems contrary to preconceived ideas as to drainage, evaporation, and so forth quite satisfactorily; and again the next thought is, how about doing away with syringing to "keep down" red spider. That thought is as sure to occur to a practical gardener and florist upon first hearing or reading about sub-watering as to protect by shade a batch of cuttings from sunshine when first put into the propagating bed.

In nearly all cultural notes, both ancient and modern, the point is always more or less dwelt upon to keep the plants well syringed or to "damp down" at frequent intervals, the object in view being always and invariably to keep down red spider. There is a tacit understanding among the fraternity that this insidious little pest is always present. Some writers go so far as to recommend a moisture laden atmosphere for the same purpose, namely, to keep it down. It may be true that the red spider does not increase so fast in air charged with humidity, but that it will keep it down, I have my doubts. Some years ago when visiting a small private place, in what is called the "stove" or hothouse, was a cistern which caught the rainwater from the roof, and this was used with which to water the plants. It projected a little into the walk from beneath the bench so as to make it more convenient from which to dip the water. Among other plants trained under the roof of this hothouse, was a plant of the beautiful climber, *Cissus discolor*, vines of which were hang-

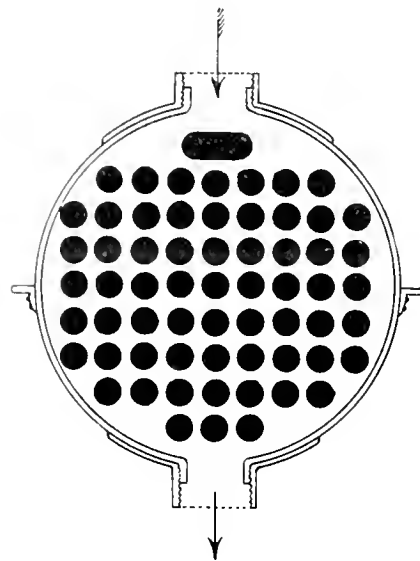


FIG. I.

ing directly over and nearly touching the water in the cistern, upon the leaves of which was as prolific a crop of red spider as I have ever seen. From that time I have doubted the efficacy of a moisture laden atmosphere to keep down red spider.

The only hope is, and has been for some time, to keep down or destroy red spider is to direct a stream of water with pressure to where this troublesome insect finds a lodgment, and that is generally on the under side of the leaves. Professor Arthur stated during the discussion above referred to that he did not believe that the question of red spider depended upon syringing at all. He knew that all florists dreaded red spider, but it ought not to be there to start with. Every practical operator among plants grown under glass will agree with the professor, and there are none among us but who fully realize the truth of that statement. But how many of us have gone systematically to work with the object in view of planting our rose houses with plants that are absolutely free from red spider? And yet I believe it would pay us to do it. If the plants were quite clean, and the house in which they were planted contained no red spider, how different would the future operations in that house be conducted to what they

generally are, especially if we fully realized all the benefits attached thereto. The dreaded dark, dull days of winter and the equally dreaded "black spot" would be shorn of nearly all their terrors. We would cut no more roses, possibly, on that account, but much of the anxiety we now experience would be removed, for the reasons above indicated.

Had this point been selected by the trade papers, and had they discoursed upon it intelligently and given instructions how to proceed to destroy and totally annihilate the red spider, it would have been a greater benefit to the trade at large than publishing the proceedings of the A. C. S. in full, and it would have had the effect of more members becoming enrolled in the American Carnation Society. Although I do not consider myself a carnation man at the present time, yet I do consider myself reimbursed for my membership fee by Professor Arthur's remark to the effect that the red spider ought not to be there to start with. E. L.

Steam and Hot Water Heating.

PART V.—HOT WATER UNDER PRESSURE.

This is the most up-to-date system of greenhouse heating. Enterprising florists who have large plants are learning that the old style, low pressure hot water apparatus, although it held its own well for many years, is far behind the times in many respects, and is being replaced by hot water systems under pressure. One of the special advantages in the pressure system is that a much greater range of temperature of water in the system can be had, and on this account, in cases of emergency, when a sudden fall in temperature must be guarded against, there will be no trouble to get the necessary heat. Another advantage possessed by the hot water system under pressure is, that any size of pipe can be used for mains and heating coils. For this system of heating wrought iron pipes are used with screw thread joints, and these are much less liable to leakage than cast iron caked joints. Then again, space is worth money in greenhouses, and heating coils of one-half the usual size that will do the the same amount of heating, or more, are surely a great advantage.

With the open tank hot water system, it is not practical to carry the water higher than to a temperature of 200°, that is without pressure; but with the outlet from the expansion tank provided with a safety valve, the system may be

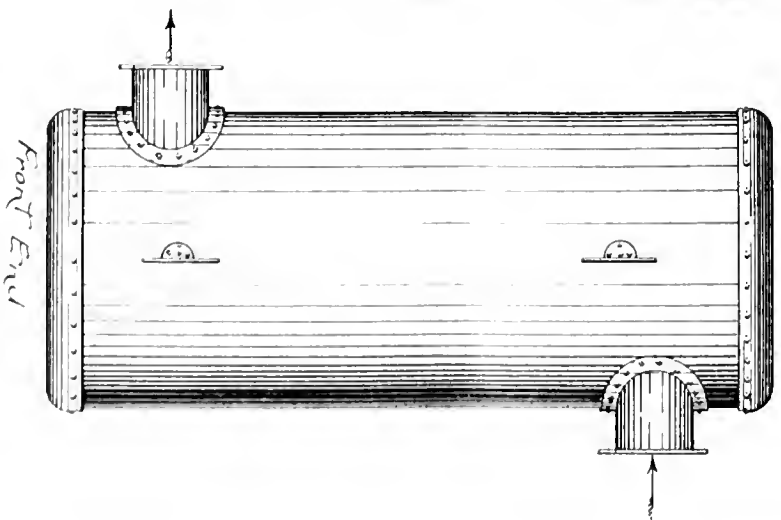


FIG. II.

run under any desired pressure, and in this way any desired temperature, even above 200°, can be had as readily as a temperature below 200°. To carry a hot water pressure of about fifty pounds per square inch in the heating apparatus we would have a temperature of the water in the system of 300°. It will, therefore, be seen that this is about double the temperature carried by the old style, cast iron, open tank system, which runs about 150° on the average. However, it must be remembered that any style of boiler will not answer for a closed tank system, and consequently, in selecting a boiler for such work, this point should not be lost sight of.

For high pressure hot water heating, it will be necessary to have high pressure boilers, such as are tested to stand a hydraulic pressure of at least 200 pounds to the square inch, in order to be absolutely safe under any ordinary conditions. There are many types of hot water boilers in the market suitable for this class of work, which are not only built to resist any pressure that they may be called upon to withstand but which are constructed to heat water rapidly and economically. One type of high pressure hot water boiler used largely in this country is the wrought iron tubular style, an end view of which is shown in the accompanying illustration, Fig. 1, and the special point of difference between this and the ordinary wrought iron, tubular steam boiler lies in the additional number of tubes in the former. This is done for the purpose of getting as much heating surface in the boiler as possible, and at the same time leaving ample space between the tubes for the proper and easy circulation of the water.

Another special point to which I desire to call attention in this type of boiler is the tube connections. As will be noticed by referring to Fig. 2, the return connection is near the rear end at the bottom, while the flow or outlet connection from the boiler is on the top, near the front end of the boiler. This is a very good and important point in a hot water boiler, but not so much so in steam boilers. With the pipe connections arranged as shown in Fig. 2, the water must move through the greatest distance of the boiler, rising from bottom to top and passing from one end to the other, also entering at the coldest point and leaving the boiler from the hottest, directly over the fire in front. This disposition of the connections produces the most rapid circulation of the water through the system, which always means economy in fuel. To produce the best circulation we must have the greatest possible difference in temperature between the return water entering the bottom of the boiler and the flow water leaving it at the top. These are some of the important things to know for those interested in hot water heating; it makes a vast difference how each part of a boiler is constructed.

JAS. J. LAWLER.

#### Obituary.

James D. Burnett, a well known rose grower of Madison, N. J., died on Saturday, May 7, of consumption. Mr. Burnett's age was 50 years. He was a native of Madison, and graduated from the business of carpenter into that of flower grower nine years ago, commencing with one small house and enlarging year after year until he became the owner of quite a large establishment. During the whole time, with the excep-

tion of a few months at first, he consigned his flowers without interruption to Burns & Raynor and their successor, John I. Raynor, a record that is unique among growers for the New York market. He was a royal good fellow and a good all around business man highly respected in his native town. He was married twice, but both wives are dead, and he leaves two sons and two daughters. The Royal Arcanum, of which he was a member, took charge of the funeral services, which were held on Monday, and many prominent people of Madison attended.

EDEN, ME.—The Mount Desert Nurseries have been incorporated with a capital stock of \$50,000. George B. Dorr, of Bar Harbor, is president.

WINFIELD, KAS.—E. H. Gilbert reports an excellent spring business for his section of the country despite the fact that the season is very backward.

WICHITA, KAS.—There is an increased demand for cut flowers, and bedding plants are going fast, yet C. P. Mueller reports last week to have been the rainiest in eight years.

DELL RAPIDS, S. D.—The Osage Nurseries have started an experiment station on the farm of J. A. Kelley, and have started a number of young plants under very favorable conditions.

MUNCIE, IND.—For the recent banquet of the Travelers' Protective Association the Muncie Floral Co. supplied the decorations. There were more than forty vases of cut flowers on the tables.

#### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Place ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want ad. free to be used at any time during the year.

**SITUATION WANTED**—Ten years' experience in roses and general greenhouse work. Address J. J., Box 163, Newtown, Pa.

**SITUATION WANTED**—By a grower of roses, carnations and other pot plants; 26 years' experience. Best references. F. S., care American Florist.

**SITUATION WANTED**—By competent gardener and florist, for public or private place, large or small; parties wanting to secure the services of a valuable man, address W. G., care American Florist.

**SITUATION WANTED**—By a practical gardener and florist for private place; 20 years' experience. Best references: married, one child. Not afraid to work. Address Box 231, Lake Forest, Ill.

**SITUATION WANTED**—By a young man of 23 in a florist's place doing a retail business. Thoroughly posted on roses, carnations, mums and decorative stock. Fair wages expected. Central states preferred. P. A. X., care American Florist.

**SITUATION WANTED**—By a married man, of family, English, age 28 years; 13 years' experience, thorough in all bran. Would like to run small commercial place. Wages \$50 per month. GARDENER, Floral Park, L. I., N. Y.

**SITUATION WANTED**—By experienced florist, married (no children), middle age; either private or commercial place; understand raising general stock, greenhouse building and steam fitting. Address FLORIST, 5739 Easton Ave., St. Louis, Mo.

**SITUATION WANTED**—As foreman in large cut flower establishment by a first-class grower of roses, carnations, etc.; has been foreman in large places for past 10 years; 24 years' experience. Best references. BEAUTIES, care American Florist.

**SITUATION WANTED**—By July 25th as grower of cut flowers and general line of plants, in a progressive commercial place; 15 years' experience. Only those offering good services and able to pay good wages need apply. C. C., care American Florist.

**SITUATION WANTED**—On or after June 15 by competent married man; 12 years' experience as grower of cut flowers and plants; first-class designer and decorator; fully able to take charge. Best references. F. QUICKERT, 835 Third St., Marquette, Mich.

**SITUATION WANTED**—As head gardener and florist in private place or public institution; thorough in fruits, flowers and vegetables, landscape and ornamental work; English, middle age. Could come alone or with daughter (25). State wages etc. G. S., care American Florist.

**WANTED**—First-class grower to take charge of a section of rosehouse. Address WLETOR BROS., 51 Wabash Ave., Chicago.

**WANTED**—First-class florists' wire design worker. Steady work the year round. Apply with refs. HOLTON & HUNKEL CO., Box 105, Milwaukee, Wis.

**WANTED TO RENT**—Or lease with privilege of purchase, established florist business. House must be in good repair and running order. Give full particulars. R. A. W., care American Florist.

**WANTED**—A man who has had experience in growing nursery stock and summer propagation of roses and shrubs making cuttings and attending to them, watering plants and taking charge of greenhouse under a superintendent, to fact, a thorough nurseryman. No florist need answer. THE ELIZABETH NURSERY CO., 96 Broad St., Elizabeth, N. J.

**FOR RENT**—For greenhouse purposes, 32,700 square feet on Michigan Ave. Long lease and low rental. Room 923, 154 La Salle St., Chicago.

**FOR SALE**—Florist's single covered wagon; height about 5 feet, width about 4 feet, length about 7 1/2 feet; built to order, costing \$250. Used but 2 years. Will be sold cheap for cash. VAUGHAN'S SEED STORE, Box 688, Chicago.

#### FOR SALE.

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write.

A. LEUNER, Wausau, Wis.

**FOR SALE**—The greenhouse establishment of F. Schiller & Kuske formerly Schiller & Mallander, is offered for sale at a great sacrifice; \$3000 will buy 2 1/2-20 acres of valuable ground, 25 greenhouses, comprising 56,000 square feet of glass; wells, 2 nice dwelling houses, sheds, etc., located in the village of Niles Center, about 12 miles from the heart of Chicago; 1 1/2 miles to depot. Terms, \$500 cash, balance on time; investigate. Address correspondence to Poehlmann Bros., Morton Grove Cook Co., Ill., or Herman Schiller, 820 W. Madison St., Chicago.

#### SITUATION WANTED

by florist and gardener; private or commercial place; best Boston preferred. Ten years' thorough experience in growing roses, carnations, violets and general florists' stock. Four years steady at present place as foreman; good maker-up and seller. German, single, 25 years old; 7 years in America. Honest, sober and steady. Best of references. Good wages expected. Ready May 2d. Address H. S., care Am. Florist.

**\$40.00** will buy a hot water boiler; will heat 800 feet of 4-inch pipe; been used 3 months; good as new; also 50,000 single rooted VIOLETS, \$2.00 per 1000. Cash with order.

J. K. POSTMA, Princeton, Ky.

## WANTED

Photographs of gardens and plants; also of specimen plants, hardy and otherwise. Send price and particulars to

F. BRUNTON & CO.,

136 Boylston Street, - BOSTON, MASS.

## THE JORDAN FLORAL CO.

OF ST. LOUIS

Offer for sale their greenhouses, 20 in number, with complete heating plant, covering about 3 acres of ground, with all stock and good will of the business; will lease ground on fair rental value long as wanted. Established trade for over 35 years; this is an opportunity of a life time to buy a good established business. Also have a large retail store opposite the post office. Apply to

Leon L. Hull Real Estate Co.,

804 Chestnut St., - ST. LOUIS, MO.

## FOR SALE OR RENT VERY CHEAP.

I offer for sale or rent my undivided half interest of the real estate of the greenhouse property formerly known as Schiller & Mallander situated in the village of Niles Center, about 12 miles from business center of Chicago and 1 1/2 miles from Morton Grove, Ill. The property consists of 25 greenhouses, 2 dwelling houses, barns, wells and necessary sheds on 2 1/2-20 acres of land. Invaluable. Price for undivided half, \$4,000; terms \$1,000 cash, balance payable in seven yearly installments, secured by mortgage notes bearing 6 per cent. interest. Or will rent or lease to some responsible party for a term of years at an annual rental of \$45,000, giving option to lease to buy my interest for above stated price, provided that said lessee will make repairs the first year to the extent of \$1,000. Will acquire deed to property May 18. Address

MRS. B. KUSKE,

Care Poehlmann Bros., Morton Grove, Cook Co., Ill.

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
 WHOLESALE  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**Finch FLORIST.**  
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**KENNICOTT BROS. CO.**  
 WHOLESALE CUT FLOWERS  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE. CHICAGO

**Wholesale Flower Markets**  
 CHICAGO, May 13.

Roses, Beauties.....per doz. .75@2.00	
" Brides.....	1.00@ 4.00
" Meteor, Bridesmaids, Kaiserin.....	1.00@ 4.00
" Goutiers, Perles.....	1.00@ 3.00
Carnations, common.....	.50@ 1.50
" fancy.....	2.00@ 3.00
Violets.....	.40@ .75
Narcissus Poeticus.....	.50
Harrison, Callas.....	2.00@ 5.00
Lily of the valley.....	1.00@ 3.00
Tulips.....	1.00@ 4.00
Sweet peas.....	.50@ 1.00
Gladoli.....	6.00@ 8.00
Adiantum.....	.50@ 1.00
Smilax.....	10.00@15.00
Asparagus.....	40.00@75.00
Pansies.....	.50
Peonies.....	per dozen, 50c.

**A. L. RANDALL**  
 Wholesale Florist  
 Don't Forget that we are at 4 Wash-  
 ington St., Chicago.  
 Write for special quotations on large orders.

**E. C. AMLING,**  
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**COMMISSION FLORIST,**  
 51 WABASH AVENUE,  
 Consignments Solicited. CHICAGO.  
 Prompt attention to shipping orders.

**Ford Bros...**  
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 Consignments Solicited. Telephone, 260 38th St.

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 Wholesale Cut Flowers  
 AND FLORISTS' SUPPLIES.  
 Agents for the Illinois Rose Co. Special attention  
 paid to shipping orders.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

**Bassett & Washburn's  
 ROSE PLANTS**  
 We have an extra selected stock of the following  
 Rose Plants. Will guarantee them to  
 be as fine as any grown.

	Per 100	Per 1000
American Beauty.....2 1/2-in. pot.	\$5.00	\$50.00
Brides.....	3.00	25.00
Bridesmaids.....	3.00	25.00
Kaiserin.....	3.50	30.00
President Carnot.....	3.50	30.00

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 Store: 88 Wabash Avenue, CHICAGO, ILL.  
 Long Distance Phone Main 223.  
 Greenhouse and Residence, Hinsdale, Ill.  
 Long Distance Phone No. 10.

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**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
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 TELEPHONE 1675 38th St.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us.  
**WIRE DESIGNS: A Full Line.** Write us for  
 our Illustrated Catalogue.

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**THE NEW YORK CUT FLOWER CO.**  
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**ROGERS PARK FLORAL CO.,**  
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 HEADQUARTERS FOR AMERICAN BEAUTIES.

**REINBERG BROS.**  
 WHOLESALE GROWERS OF  
**...CUT FLOWERS...**  
 600,000 feet of Glass. We can fill all orders on short notice with all leading varieties of  
 Roses and Carnations. We Are Headquarters for Fine American Beauties. Give us a trial and  
 convince yourself. \* \* \* \* \*

**ROOTED ROSE CUTTINGS**

	Per 100	Per 1000
AM. BEAUTIES.....	\$2.50	\$20.00
BRIDESMAID.....	1.50	12.50
L.A. FRANCE.....	1.50	12.50

Plants and cuttings sent by express at plant  
 rates (20 per cent less than M. & L. rates). \* \* \* \* \*

**REINBERG BROS., 51 WABASH AVENUE, CHICAGO.**

**ROSE PLANTS**  
 out of 2 1/2-inch pots. per 100 per 1000

American Beauty.....	\$5.00	\$45.00
Meteor.....	3.00	25.00
Bride.....	2.50	20.00
Bridesmaid.....	2.50	20.00
La France.....	2.50	22.50
Belle Siebrecht.....	2.50	22.50

**ROOTED CARNATION CUTTINGS**

	per 100	per 1000
Jubilee.....	\$2.00	\$15.00
Wm. Scott.....	1.00	7.50
Tidal Wave.....	1.00	7.50
Portia.....	1.00	7.50
Lizzie Metroman.....	1.00	7.50
Godfnch.....	1.00	7.50
Mrs. Thompson.....	1.00	7.50
Emma Woelch.....	1.50	12.50
Lizzie Gilbert.....	1.50	12.50
Harrison's White.....	1.50	12.50
Bridesmaid.....	1.50	12.50
Flora Hill.....	3.00	25.00
Mayor Plogree.....	3.00	25.00

We would call your special attention to our choice  
 Smilax plants at \$2.00 per 100 and \$15.00 per 1000.

**M. A. HART,**  
**Commission DEALER Cut Flowers,**  
 IN  
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**THE BEST MARKET IN NEW YORK.**  
 'Phone 1307 38th St.

**TRENDLY & SCHENCK,**  
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 Control the stock of many celebrated growers and  
 are prepared to quote prices on First Grade  
 Cut Flowers. All varieties.  
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 404-412 E. 34th St. Near Ferry.  
 Open for Cut Flower Sales at 6 o'clock  
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**DESIRABLE WALL SPACE TO RENT**  
**FOR ADVERTISING.**  
**JOHN DONALDSON, Secretary.**

**Wholesale Flower Markets**

NEW YORK, May 11.

Roses, Beauties, Hybrid	4.00@12.00
" Jacqs	4.00@ 8.00
" Bridesmaids, Testout, Carnot.	.50@ 6.00
" Morgans, Meteor	.50@ 4.00
Carnations	1.00@ 2.50
Lily of the valley	1.00@ 2.00
Sweet peas per 100 bunches.	8.00@10.00
Daffodils, Tulips (outdoor)	.50@ 1.00
Violets	.15@ .50
Harrish, Callas	2.50@ 3.00
Smilax	12.00@15.00
Asparagus	40.00@50.00

BOSTON, May 11

Roses, Beauties, Brunners	5.00@15.00
" Morgan, Meteor	1.00@ 3.00
" Brides, Bridesmaids, Carnot	2.00@ 3.00
Carnations	1.50@ 2.00
" fancy	2.00@ 3.00
Lily of the valley	2.00@ 3.00
Daffodils, Tulips (outside)	50¢@ 1.00
Violets	.50¢@ .75
Harrish, Callas	4.00@ 6.00
Sweet peas	7.50@ 15.00
Smilax	20.00@25.00

PHILADELPHIA, May 11.

Roses, Beauties, per dozen	1.00@ 4.00
" Brunners	16.00@35.00
" Jacqs	8.00@12.00
" Texas	3.00@ 6.00
Carnations	1.00@ 2.00
Lily of the valley	3.00@ 4.00
Longiflorums	5.00@ 6.00
Harrish	8.00@10.00
Sweet peas	7.50@ 15.00
Smilax	12.00@15.00

**John I. Raynor,**  
 49 WEST 28th STREET,  
**NEW YORK.**

**SPECIAL EXTRA STOCK OF**  
**AM. BEAUTY, METEOR,**  
**BRIDESMAID, BRIDE.**  
**Record Breaking Carnations**  
**ALL THE YEAR ROUND.**

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43 West 28th Street, New York.  
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**WHOLESALE**  
**FLORIST,**  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
 returns for their stock at....

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**53 W. 30th Street, - NEW YORK.**

**Edward C. Horan,**  
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**WHOLESALE • FLORIST.**

Careful Shipping to all parts of the country.  
 Price list on application.

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 Consignments Solicited. Special attention given to  
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**CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.**

**WELCH BROS., PROPRIETORS.**  
 Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported  
 weekly; payments monthly, or oftener if required.  
**THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.**

**J. K. ALLEN,**  
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 EXTRA ROSES  
 AND OTHER DESIRABLE SPECIALTIES.  
 57 West 28th Street,  
 Long Distance Telephone  
 382-38th St **NEW YORK.**

**GALVIN & CO.**  
**Wholesale Florists**  
 AND DEALERS IN ALL  
**FLORISTS' SUPPLIES,**  
**4 Ordway Place, BOSTON, MASS.**  
 Cut Flower Consignments Solicited. Best market.

**GEORGE A. SUTHERLAND,**  
**Cut Flowers AND Florists' Supplies**  
**WHOLESALE.**  
 67 Bromfield St., **BOSTON, MASS.**

**Wholesale Florists** **JOBBER'S IN**  
 ALWAYS ON HAND:  
 CARNATIONS, **FLORIST'S**  
 BRIDESMAIDS, **SUPPLIES.**  
 BRIDES.  
**N. F. McCarthy**  
**FLORISTS' VASES.**  
 Horticultural Auctioneers.  
**84 HAWLEY STREET, - BOSTON.**

**JOHN YOUNG,**  
**ROSES, CARNATIONS, VALLEY**  
 and all other choice cut flower stock.  
 51 W. 28th Street, **NEW YORK.**  
 Price list on application.

**FRANK MILLANG,**  
**CUT FLOWERS,**  
**WHOLESALE COMMISSION,**  
 408 E. 34th Street,  
 Cut Flower Exchange. **NEW YORK.**

Rochester, N. Y.

The past week had no feature except a decided scarcity of white flowers; in the dull and cloudy weather they were slow to open and the demand for funeral pieces was above the ordinary, so that everyone was short of white blooms. No extraordinary events called for the extensive use of flowers, therefore the shortage in other lines was not so greatly noticed. As bright and warm weather is again with us, the supply is increasing materially, and probabilities are that the end of the week may even see a surplus in several lines, for in addition to our regular winter flowers quite a number of hardy outdoor plants, such as arabis, candy-tuft, paeonia tenuifolia, Doronicum excelsum, etc., are coming on, and will probably sell well for a time because they are a change from the everyday line. However, nobody is prepared to furnish these things in very large quantities, and there is no danger of overloading the market.

J. B. K.

Say "saw your ad. in the Florist" when you write advertisers.



GIVE US A TRIAL. WE CAN PLEASE YOU.

ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST...

495 Washington St., Buffalo, N. Y.  
Also Dealer in Florists' Supplies and Wire Designs

COMPLETE LINE OF SUPPLIES

WIRE WORK

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**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long,

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**SELECT ROSES and CARNATIONS**

We keep a large stock of all miscellaneous stock such as Narcissus, Lilies, Valley, Tulips, Lilac, Paeonies, Sweet Peas, Pansies, Smilax, Asparagus, Ferns, etc., etc. Write for special prices on large orders.

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OPEN FOR BUSINESS. 37-39 Randolph Street, CHICAGO.

We have decided to dispose of our own production and will be in a position to fill orders with A No. 1 stock. Give us a trial. Also have a large quantity of nice rose plants which we offer as follows:

American Beauties.....	Per 100	Per 1000	Meteor 4.....	Per 100	Per 1000
Brides.....	\$5.00	\$40.00	Kaiserin.....	\$3.00	\$25.00
Bridesmaids.....	3.00	25.00	Perle.....	3.00	25.00
Perle.....	3.00	25.00			

This stock is guaranteed to be first-class in every respect. Nothing but first-class sent out. Terms, cash with order.

**J. A. BUDLONG, 37-39 Randolph St., Chicago.**  
When writing mention American Florist.

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CINCINNATI, May 12.

Roses, Beauties, select.....	20 00
" " medium.....	10 00@15 00
" Brides Bridesmaids.....	3 00@ 4 00
" Meteors.....	4 00@ 5 00
Perle.....	3 00
Carnations.....	1 00
" fancy.....	1.50@ 2 00
Marguerites.....	.25
Lily of the valley.....	3 00
Harrill.....	8 00
Callas.....	6 00@ 8 00
Stocks.....	2 00
Smilax.....	12.50
Adiantum.....	1 00
Asparagus.....	50.00

ST. LOUIS, May 12.

Roses, Beauties.....	2 00@3 00
" Meteors.....	1 00@ 3 00
" Brides, Bridesmaids.....	1 00@ 4 00
" Perle.....	1 00@ 4 00
" Kaiserin.....	1 00@ 4 00
Carnations.....	1 00@ 3 00
Violets, California.....	.35
" double.....	.35
Lily of the valley.....	2 00@ 3 00
Harrill.....	6 00@ 10 00
Callas.....	5 00@ 6 00
Smilax.....	15.00@ 20.00

MILWAUKEE, May 12

Roses, Beauties.....	10 00@20 00
" Brides, Bridesmaids.....	2 00@ 5 00
" Perle.....	2 00@ 4 00
" Meteors.....	2 00@ 5 00
Carnations.....	1 00@ 2 00
Sweet peas.....	3 00@ 4 00
Valley, indoor.....	3 00
" outdoor.....	1 00
Tulips.....	1 00@ 2 00
Gladiol.....	5 00@ 8 00
Smilax.....	15.00
Adiantum.....	7.00 1 00
Iris, Hispanica.....	4 00@ 6 00

BUFFALO, May 12.

Roses, Beauties.....	10 00@40 00
" Brides, Bridesmaids, Meteors.....	3 00@ 6 00
" Perle.....	2 00@ 4 00
" Niphetos.....	2 00@ 4 00
" Kaiserin.....	3 00@ 5 00
Carnations, white and colored.....	1 00@ 2 00
" Day break and fanchon.....	2 00@ 3 00
Lily of the valley.....	3 00@ 4 00
Violets.....	7.50 1 25
Narcissus.....	7.50 1 50
Harrill.....	8 00@10 00
Callas.....	7 00@10 00
Tulips.....	2 00@ 3 00
Francon.....	4 00 5 00
Smilax.....	15.00
Adiantum.....	1 00@ 1 25
Asparagus.....	50 00@75 00

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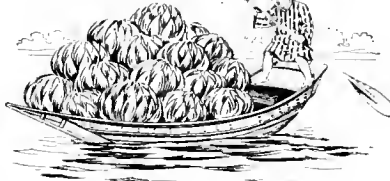
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On account of the scarcity of the larger sizes of JAPAN LONGIFLORUM and the large demand for same this season I have to request that orders be booked EARLY to avoid disappointment. I offer 3 sizes namely: 5-7, 7-9 and 9-10 inches, but can only accept orders for the larger sizes when fair proportion of the smaller is taken. Delivery Sept. 25 to Oct. 15, 1898. Prices on application. Would be pleased also to get your general order for other Forcing Bulbs and Roots at same time. Address all orders and correspondence to Juniper and Walnut Sts., Philadelphia.

G. C. WATSON.

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THE NATIONAL

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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

IRVING ROUSE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y and Treas.

DENISON, TEXAS.—T. V. Munson, this city's most noted floriculturist and viticulturist, has been elected corresponding member of the National Society of Agriculture of France. In 1889 Mr. Munson was accorded the decoration of the Legion of Honor for his success in supplying grafting stock with which to restore worn out vineyards in France.

Park and Outdoor Art Association.

We have received the preliminary announcement of the Minneapolis meeting, to be held June 22, 23 and 24. Headquarters of the association will be at the West Hotel, at which the rates are \$3 per day and upward. Minneapolis is readily accessible from all points by rail. Eastern visitors can take advantage of the fine boat ride through the great lakes from Buffalo to Duluth via the Great Northern Steamship Line. Such special hotel and railroad rates as are secured will be announced later. Mornings of the 22d (Wednesday), the 23d, and the entire day of the 24th will be given up to business, papers and discussion.

The retiring president will address the meeting and the following papers have been promised: W. W. Folwell, "Playgrounds and Plazas"; Jno. H. Patterson, "Landscape Gardening," illustrated by the stereopticon; Fred Kanst, "Plant Propagation for Parks"; B. E. Fernow, "Esthetic Forestry"; Chas. M. Loring, "Tree Planting on Public Streets"; O. C. Simonds, "Appreciation of Natural Beauty"; Orlando B. Douglas, "The Relation of Public Parks to Public Health"; Chas. N. Lowrie, "Small City Parks and Open Air Breathing Spaces"; J. A. Pettigrew, "Park Woodlands and Plantations"; A. C. Clas, "The Architect and the Landscape Architect"; C. Wahl, "The Duties of Park Commissioners."

It is expected that Mrs. Robert Pratt will present the work of children in improving the surroundings of their home and school grounds, and that she will have the assistance of ladies and gentlemen of other sections of the country who have taken an active interest in this work. A more complete list of authors, papers and titles will be sent to members before the date of the meeting.

At some time during the afternoons or evenings of the 22d and 23d a banquet is to be given by the citizens; an opportunity is to be given for an examination of the park system, and the invitation of Mr. F. H. Peavey to visit his estate upon the shores of Lake Mimetonka and to take a boat ride upon the lake will be accepted. At the close of the meeting arrangements are to be made for an excursion to the Interstate Park at the Falls of the St. Croix. Warren H. Manning, of Boston, Mass., is secretary and treasurer.

Franklin, Pa.

A joke is going the rounds in newspaperdom to the effect that the market gardeners along the Atlantic coast are not planting peas this spring for fear that the Spanish warships will come along and shell them. I may add, in parenthesis, that no such fears are being entertained by the florists, for glass is going up, and not more so here than in the air, at a

rate that bespeaks an utter disregard for the Spanish or any other troubles. That spirit of commercialism with which Europe sometimes charges us expresses itself in the hustle noticeable on all sides among the florists, which surely means the advent of a brighter era.

It is most gratifying to note that so staunch a conservative as W. T. Bell takes a rosy view of the future. His activity this spring would convince the most pessimistic that the time of making hay has come. Besides extensive alterations about his plant, Mr. Bell has two new houses, each 16x120, in course of erection. They are intended for roses and run east and west with the short span to the south. Brick walls and woodwork covered with slate are some of the expensive features about the place, it being Mr. Bell's rule that "whatever is worth doing at all is worth doing well."

Another feature worthy of mention is the change from the hot water heating system to that of steam. Where four boilers formerly did duty one will soon be placed in position with sufficient capacity to distribute heat throughout the entire plant. Taken all in all Mr. Bell's establishment promises to be of the model type.

A seedling having some of the Day-break "blood," a beautiful salmon pink on a long, stiff stem, fringed and fragrant, attracted my attention while strolling through the houses. It is a fine carnation and, in my opinion, is destined to make its mark.

Business is all that can be expected at this season of the year. Homo.

MARINETTE, Wis.—George Vatter is building a range of modern greenhouses on State street to which he will shortly remove.

OUR SPECIALTIES  
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**AZALEAS, ROSES,  
RHODODENDRONS**

New and rare hardy plants for forcing. Novelties in Ferns raised by the largest London grower. The newest and best varieties of roses; H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

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Alternanthera, Coleus, Geraniums, Pansies, Dahlias, Verbenas, Fuchsias, Salvia, etc., etc. Write for prices. Florists when in Milwaukee are invited to look over our stock.

**ARCHIE MIDDLEMASS,**  
1019 Forest Home Ave., MILWAUKEE, WIS.

- EVERGREENS, Etc.**
- 20,000 American Arbor Vitae, 2 to 8 feet specimens and hedging plants.
  - 5,000 Pyramidal Arbor Vitae, 2 to 4 feet.
  - 20,000 Compact, Globe and other dwarf Arbor Vitae, all sizes.
  - 3,000 Nordman's Silver Fir, 1 to 2½ feet.
  - 2,000 European Silver Fir, 2 to 4 feet.
  - 5,000 Hemlock Spruce, 1 to 4 feet.
  - 10,000 Norway Spruce, 3 to 8 feet.
  - 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
  - 5,000 Irish Junipers, 1 to 2½ feet.
  - 10,000 Pines, Austrian, Scotch, Excelsa, White and dwarf varieties, all sizes.
  - 1,000 Eponymous Japonica, 18 to 36 inches.
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  - 3,000 Mahonia aquifolia and Japonica.
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- Prices low. Correspondence solicited.

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**JAPANESE PLANTS,  
BULBS, ETC.**

At lowest prices. Small orders filled from experimental garden Columbia Road, Dorchester, Mass. Wholesale catalogue, 188, free to the trade.

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Office: 272 Boylston St., BOSTON, MASS.

**Hemlock Spruce...**

18-24 and 24-36 inch.

**Azalea Indica** for full use, 15c to \$10 each. Write for prices on other items

**HIRAM T. JONES,**  
Union County Nurseries, - EEIZABETH, N. J.

**Peacock's Prize Winning Dahlias**

36 First Prizes out of 39 entries in 1896 and 1897.

Send for 1898 illustrated wholesale catalogue before placing orders elsewhere.

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**HARDY  
Herbaceous Perennials**

THE MOST COMPLETE STOCK IN AMERICA.  
PEONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

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The Reading Nursery, READING, MASS.  
ESTABLISHED 1854.

**CLEMATIS** Jackmanii, Henryll doz. 100 and others..... \$3.00 \$20.00

**H. P. Roses** Strong, 2 and 3 years own roots..... \$1.50 \$10.00

**RED JACKET GOOSEBERRY,** only large native red..... .75 \$1.00

**DOWNING,** best for general crop, special prices.

**PAEONIES,** fine assortment of colors and kinds \$1.25 \$8.00

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**HARDY SHRUBS**

Assorted in 25 Varieties.  
My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

**SAMUEL C. MOON,**  
MORRISVILLE, - Bucks Co., PA.

It will be better for everybody if you mention the American Florist when writing advertisers on this page.

St. Paul.

TRADE PROSPECTS ARE BRIGHT IN THE TWIN CITIES.—SUPPLY DOES NOT EQUAL THE DEMAND.—VISITORS.

Sales since Easter have been good. Weddings, funerals and social functions have all contributed to the florists' trade, and with the season at hand for planting out stock, with Memorial Day in the near future and commencement season immediately after, their hands will be kept busy.

In the cut flower line stock is fairly abundant, though there is not enough grown here to supply the demand. White roses and carnations are the scarce articles, while smilax, which has been in short supply, is becoming more plentiful.

Retail prices are maintained, the best Tea roses selling at \$1.50, carnations at 50 cents and lilies of the valley, narcissus and other bulbous stock at the same figure per dozen.

The plant trade is just beginning and promises to be extra good. The war seems to have raised the patriotic feeling and we anticipate a big trade for Memorial Day. Wherever a brave defender of his country lies under the sod, loving hands will decorate, unless he lies in an unknown grave.

One of the large grocery stores has been selling flowers at unheard of prices. They are supplied by a local grower. This sale, however, has hardly caused a ripple of excitement in florist circles.

I have not learned of any one who contemplates building this summer. While some small additions may be made, the present high price of glass will probably cause the postponement of any extensive building.

While the trade here needs more good growers, and growers of specialties, if the houses now erected were to produce their full capacity we would not be so dependent on Chicago and Milwaukee for supplies. It seems hard to get the growers started right, as each one will persist in growing "a little of everything and not much of anything."

J. Austin Shaw, smiling, smooth and serene, dropped in on us a few days ago. His samples were O. K. and his words fell like manna on the Israelites. May his shadow never grow less. At the same time Mr. H. J. Goemans, of Ghent, Belgium, Haarlem, Holland, and New York City, called and discoursed learnedly about azaleas, bulbs, and the like. Next came C. C. Pollworth, of the Cream City, followed by C. S. Ford, Jr., of New York, and D. L. Sloan, a California seedsman.

Wm. Scott, formerly propagator for May & Co., has gone to the Klondike.

Christ Hansen has discontinued his city store. FELIX.

New Haven, Conn.

The event of the week in local floral circles was the funeral of W. T. Townsend, Yale 1901, son of Judge W. K. Townsend, of the United States District Court, which took place Thursday afternoon. Mr. Townsend was killed on Monday by a fall from his bicycle. The casket was made of willow, lined throughout with Daybreak carnations. The sides were completely covered with Bridesmaid roses. Over the top was a frame cover of Bridesmaids presented by his classmates. All the roses were either pink or red. The decorations at the home of the young man were most elaborate, consisting of palms, ferns, festoons of asparagus with Daybreak carnations, Bridesmaid and Meteor roses and many large bouquets of American Beauty and white lilac. Nearly all the

florists of New Haven were heavily taxed for roses, etc., and many were obtained from New York. All the offerings were in clusters or large vases, designs being conspicuous by their absence. The grave was lined with hemlock boughs, and the mound was covered with roses.

W. F. Jost, the well known violet

grower of East Haven, is recovering from a severe attack of peritonitis. J. A. P.

NEWPORT, KY.—Graf Bros. state that prices have taken a 10% advance, and that both supply and demand are good, although business is not as brisk as it was last spring.

FOR THE SOLDIERS

MEMORIAL DAY will be here in two weeks, and there will be a boom in supplies appropriate for the demands of the day.

Cycas Wreaths, Metal Designs in endless variety, Moss Wreaths, Doves, Inscriptions, Flower Holders for Cemeteries, Immortelles, Cape Flowers, Baskets and Sheaves.

Every florist will need a big stock of all these things. We can supply these and all other requisites at lowest figures. Illustrated catalogue on application. Wholesale only.

H. Bayersdorfer & Co.,

50-52-54-56 N. Fourth St., PHILADELPHIA, PA.

ESTABLISHED 1866 EMIL STEFFENS SUCC<sup>TO</sup> N. STEFFENS AND STEFFENS BROS. MANUFACTURER OF FLORISTS' WIRE DESIGNS & SUPPLIES 335 EAST 21<sup>ST</sup> ST. NEW YORK CITY.

SMALL GREEN GALAX

For use with... VIOLETS Stiff, wiry stems. Work up beautifully. Are all the rage. Box of 5000, \$5.00. Less quantity at \$1.25 per 1000. ....ADDRESS....

HARLAN P. KELSEY, 1150 Tremont Bldg., - BOSTON, MASS.

HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

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A Complete Catalogue for Florists. Send for One.

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Exclusive Importers and Manufacturers of...

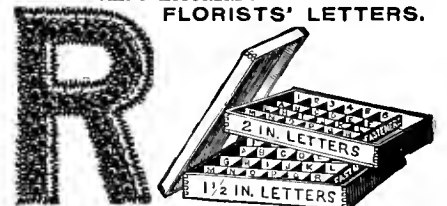
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Surplus Stock Can be disposed of by advertising. Try it.... This Size "Ad." Costs Only \$1.00. AMERICAN FLORIST CO., CHICAGO.

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MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters, \$1.—Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

FIRST QUALITY HARDY CUT FERNS

NEW CROP arriving daily, \$1.50 per 1000. Discant in wholesale jobbers. Prince's Pine, 6¢ per lb. Headquarters for Galax Leaves, Laurel festooning, 1 to 8¢ per yd; Laurel and Prince's Pine Wreaths for Decoration Day, made to order. Fine green Moss in bins, \$1.00; in sacks, 75¢. Our goods are always the best to be obtained for the money. Prompt attention to all orders. Send in your orders now for Ferns for Decoration Day and you will be sure to have them.

Crowl Fern Co. 27 Beacon Street, - BOSTON, MASS.

John Conley & Son,

Manufacturers of TIN FOIL 2 AND 4 DOMINICK STREET, New York.

BRILLIANT GREEN AND BRONZE GALAX LEAVES, For Decorating and all Florists' Designs. CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

MR. S. Y. HAINES was married May 11 at Minneapolis to Miss Charlotte M. R. Boardman.

A. UNGER, of the Louis Boehmer concern of Yokohama, sailed from Vancouver, B. C., by S. S. Empress of China, May 9.

SPARTA, ILL.—The new firm of Allen & Orr is departing from the usual method of retailing plants and seeds and is advertising its stock extensively in local papers. It pays.

N. SLUIS and son, J. Sluis, of the well known firm of Sluis & Groot, Enkhuizen, Holland, are making a two months' trip in this country, visiting the different seed growers as far as the Pacific coast.

CHICAGO.—Changes have taken place on the "West Market." Peter Hollenbach is now at 191 West Randolph street; W. W. Barnard & Co., at 167 the same street, and Geo. B. Tiarks handle Landreth's seeds at 179. Visitors: F. H. Henry, of Henry & Lee, New York; D. L. Sloan, Palo Alto, Cal.

TOLEDO, O.—The Henry Phillips Seed and Implement Company this week concluded its seed contract with the government. During the past two months they have sent out 750 tons, or nearly 17,000,000 pieces of franked mail matter. The company received about \$90,000 upon this contract and has employed seventy-five girls and twenty-five men in preparing the packages.

St. Louis.

TRADE IS IMPROVING AND RAIN HAS AT LAST CEASED TO FALL.—VIOLETS PROMISE ABUNDANCE NEXT WINTER.—A THOUSAND DOLLAR PRIZE LIST.

Trade has shown quite an improvement over last week. The quantity of stock received has not been so great; it has been selling cleaner and at a higher price than for some time. Good roses have been quoted as high as 5 and 6 cents each and on Sunday carnations were not to be had in town. Ferns have also been scarce and prices have been raised in proportion. White flowers from outdoors are coming in quite plentifully, as are Cape jessamine buds from the south. However, they meet with a slow sale. Market trade can be reported as fair, although people still seem to be holding off on their planting. The weather at last seems inclined to give persons a chance to plant out stock, as it has stopped raining. We are at present seven inches over the normal precipitation, counting from January 1, 1898.

Carnations and violets are nearly all planted out, and from the number of growers who are planting violets with the expectation of cutting from them the coming season, it will be a wonder if they can make them pay. It seems as if every gardener has heard of the profit there was in them the present season and longs to duplicate the achievement during next winter. With moderate success there should be plenty of violets in this market next season, principally single ones, however.

The list of special prizes for the flower show still continues to grow, it having

passed the thousand dollar mark recently and is still growing.

Fred Foster, late of the Krebs Floral Co., and still later of the Elite Floral Co., has opened a wholesale store at 113 North 11th street. R. F. T.

Cincinnati.

ABUNDANT FLOWER CROPS IN THE OHIO CITY.—DEPARTMENT STORE METHODS.—MR. PARTRIDGE EMBARKS IN BUSINESS.

Business has been very quiet and stock of all kinds is abundant. Roses are so plentiful as to be selling at summer prices and the same may be said of carnations. It was so unseasonably cold and wet last week that the growers had to fire up again at a lively rate, and the four days' rain mixed with snow had a very bad effect on transient and market trade.

Our weekly markets have been in a deplorable condition this spring, but it has been a long time since prices were as low as they were last week. Fakirs are swarming all over town, selling plants at ridiculously low prices. One of the department stores, "The Fair," located one block east of the Sixth Street Market, opened a flower department recently. They had the following advertisement in one of our local papers last week: Geraniums, 5 cents; carnations, 15 cents per dozen; roses, 25 to 50 cents; tuberose and gladiolus, 7 cents per dozen; seeds, 1 cent per paper. Attracted by this ad. I visited the shop and found the flower department connected with the grocery on the fifth floor. The flower salesman was busy selling Dianthus pendulus, drooping carnations, while a young lady at the adjoining counter was wrapping up Limburger cheese and imported Holland herring. Harry Edwards, of Newport, Ky., is manager of this department, although several Cincinnati boys were offered the position.

W. K. Partridge, formerly with J. M. McCullough's Sons, has purchased the greenhouses of Francis Pentland, at Lockland, O. A. M. Elliot, of Pittsburg, has accepted the position made vacant by Mr. Partridge's departure and now has charge of the seed department of this well known firm, which finds trade to be fully equal to former years. Charles McCullough reports an increase of 25% in wholesale trade. H. SCHWARZ.

TRAVERSE CITY, MICH.—H. Tobler has assumed charge of the greenhouses and grounds of the State Insane Hospital here. Mr. Tobler came from Chicago, where he was superintendent for Reinberg Bros.

Kinsman Queen ...Muskmelon

Should be tested by every seedsman this season. Trial pkts. free. To Market Gardeners, 1 lb. 50c. 1/2 lb., 75c. 1 lb. or more, \$1.25 per lb. Cash with order. Seed postpaid.

this is the earliest, best in quality and the most productive Muskmelon ever introduced. TRY IT! SPECIAL CIRCULARS FREE

FRANK BANNING, SEEDSMAN AND FLORIST, KINSMAN, OHIO.

SEEDS LAWN GRASS \$12.00 per 100 lbs.

Finest Quality Ever Offered (Retail at 30c. lb.) J. CHAS. McCULLOUGH, SEEDSMAN, RECLEANER AND JOBBER GRASS SEEDS North-East Corner Second & Walnut Sts., Cincinnati, O. Send for Illustrated Catalogues.



RAFFIA BEST QUALITY, LONG MADAGASCAR

Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut Streets, Philadelphia, Pa.

G. C. Watson, Seedsman.

THE ALBERT DICKINSON CO. DOMESTIC AND FOREIGN

GRASS SEEDS

FOR Parks, Tennis Courts, Lawns, &c. In fancy 1 and 2 pound packages and bulk. SPECIAL PRICES TO THE TRADE CHICAGO, ILL.

Seed Stores and Flower Stores.. can profitably handle our OOPORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed..... We furnish Pure Bone Meal for florists use. Guaranteed analysis... Ammonia..... 5 per cent. Bone Phos..... 35 per cent. Write for sample and prices.... THE WALKER FERTILIZER CO. Clifton Springs, N. Y.

BURPEE'S SEEDS PHILADELPHIA. Wholesale Price List for Florists and Market Gardeners.

GLUCAS & BODDINGTON CO. Importers and Exporters of Seeds, Bulbs & Plants, 501 TO 503 W. 13TH ST., NEW YORK CITY. Send for quotations on all Florists' Bulb Stock.

"BEST OF ALL" TOMATO (FOR FORCING) "ENGLISH" MELONS (FOR FORCING) FLOWER SEEDS FOR FLORISTS (Catalogues on application.) WEEBER & DON, Seed Merchants and Growers, 111 Chambers St., NEW YORK, N. Y.

**Bedding Plants.**

This class of flower is just now very important with a large number of growers, so that hints on the subject will be found useful to many.

The principal work now with geraniums is to have them hardened off as much as possible, so that when planted out they will not suffer from exposure. They should be given all the ventilation possible during the day and at night the ventilators should be arranged according to the state of the weather, but the time has passed this season for the complete closing of the ventilators either night or day. Give your plants ample room, as it will pay you to get nice short, stocky plants which cannot fail to give satisfaction to your customers. A geranium with a bunch of leaves at the top of six or seven inches of bare stem is a poor thing to send out for bedding or any other purpose, and this is what crowding results in.

Cannas are called for more largely each year, for they make a grand display. When making up a bed in which to plant cannas, remember that a good rich soil is required for the best results. If they can be so arranged, beds of separate colors and varieties will make a much better showing than will the several colors planted together in one bed. It may be a little too early to plant cannas outside

but they can be well hardened off by plenty of ventilation.

Alternantheras in the hotbeds should be coming along well now and should be encouraged as much as possible. They delight in plenty of sun but must not be kept too wet to bring the colors out. The same may be said about coleus.

Ageratum, sweet alyssum, lobelia and verbenas should now be ready for sale and should not be allowed to become dried out.

If you are to fill any vases, a little taste and judgment will go a long way toward giving satisfaction. If the vases are for cemetery purposes you will be expected to make them as pretty as possible for Memorial Day, so have your geraniums well flowered. The semi-doubles are far the best for vases, as they bloom more freely and grow much better than most of the very double varieties. Use numerous vines in your vases. Put in some good vincas, for making a show at the start, with nasturtiums, Maurandias and convolvulus planted among them to develop and maintain the effect. Also use some well flowered plants of lobelia, sweet alyssum, ageratum and ivy geraniums which, though they will not stand the heat will be attractive till the other plants have become well established. As a center plant for an extra good job you will find the phornium or New Zealand flax

the best, while several other tall growers, such as cannas, dracaenas and palms can be used to good effect.

Asters, stocks, marigolds, zinnias and centaurea, to be used either as cut flowers or for bedding plants can be planted out now. Almost every establishment has a few nooks and corners that can be used to good advantage as ground for stock plants and will at the same time help make the place look pretty and neat.

C. W. JOHNSON.

NEW LONDON, CONN.—Mrs. C. M. N. Sherman has sold the Pequot Greenhouses to the Appledorn Bros., three of them, and all experienced florists.

READING, PA.—H. M. Shoemaker has purchased the greenhouses of G. W. Beers at Fifth and Spring streets. Mr. Shoemaker will also continue his flower stand at 532 Penn street.

MADISON, GA.—On May 13 the Ladies' Garden Club gave a very successful flower show and dinner, the proceeds of which will be applied to a fund for the purchase of a monument for the town's confederate dead.

TORRENDALE, PA.—The ground upon which Peyton DeWitt's establishment has so long stood has been sold and Mr. DeWitt has been forced to select a new location where a large modern range of houses will at once be erected.

# Forcing Bulbs

WE have closed contracts with some of the best and most reliable producers for our stock of Roman Hyacinths, Dutch Hyacinths, Tulips, Von Sion Narcissus, Paper White Narcissus, Valley, Harrisii, Longiflorum, Azaleas, and all leading import forcing stock. Give us a list of your wants so that we may be able to quote you on same.

DON'T FORGET THAT WE ARE STRICTLY IN IT ON SUPPLIES OF ALL KINDS, SEEDS, BULBS AND CUT FLOWERS. . . . .

**VAUGHAN, McKELLAR & WINTERSON,**  
45-47-49 Wabash Avenue, CHICAGO.

## Armstrong's Everblooming Tuberose

A NEW departure in Tuberose growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

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3720 Olive St., ST. LOUIS MO.

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RUDOLPH VAN TIL & CO.,  
Hillegom, Holland.  
American Representative  
**L. C. BOBBINK, Rutherford, N. J.**  
ASK FOR CATALOGUE.

## BULBS For FLORISTS., For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, - HOLLAND.

## TO IMPORTERS!

**HAERENS BROS.**  
From SOMERGEM near Ghent, Belgium

SPECIAL Growers and Exporters of Azaleas, Palms, Araucarias and other decorative plants, take pleasure to inform you that their MR. ACO. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their New Azaleas will be the favorites of the future. Write for price list and special offer.

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VANDERGRIFT CO.  
66 Beaver St., New York City.

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## CANNAS NEW AMERICAN Finest in the World Our Novelties for 1898

- DUKE OF MARLBORO, darkest crimson, . . . . \$30.00
  - DUCHESS OF MARLBORO, only pure pink, . . . . 30.00
  - TOPAZ, only absolutely large pure yellow, . . . . 50.00
  - LORRAINE, pink, edged white, fine, . . . . . 30.00
  - MAIDENS BLUSH, delicate flesh color, . . . . . 15.00
  - GOLDEN PEARL, yellow, nearly double, . . . . . 30.00
  - CUBA, finest and largest gilt edged, . . . . . 40.00
  - GLORIOSA, very dwarf, March delivery, . . . . . 12.50
  - PHILADELPHIA, glowing crimson, . . . . . 15.00
  - CHAMPION, largest, glowing scarlet, . . . . \$5.00 each
  - KLONDIKE, only large pure orange, . . . . \$2.50
- Send for complete list of 50 novelties and 200 standard varieties at lowest prices.

**OUR CANNAS IN FRANCE.**  
To Messrs A Blanc & Co.  
Your new cannas of last year gave me much satisfaction. Please send me a complete set of your novelties for 1898 as soon as ready. Also 12 Giant Crimson, etc. Signed C. H. MOLIN.  
Lyon, France, Jan. 3, 1898.

**ASPARAGUS SPRENGERI**  
Fine plants in 6-inch pots, ready for 8-inch, \$5 per 12.

**AMARYLLIS....**  
Veltch's Hybrids, \$4 per 12; Equestra, \$4 per 100; Formosissima, \$3 per 100.

**CALLAS**  
Spotted Leaf, \$3; Black, \$5; Yellow, \$30; all per 100. Golden, \$2 each.

**DAHLIAS**  
11 prizes out of 22 at the last Dahlia exhibition. First prize Dahlia, GILT EDGE, \$15 per 100. Send for special list.

**A. BLANC & CO., Philadelphia, Pa.**

Orange, N. I.

The regular monthly meeting of the New Jersey Floricultural Society was held in Decker's hall, Monday night, May 2. President Malcolm MacRorie in the chair. James W. Withers was to have read a paper on "Horticultural Societies, their Purpose and Management," but was unable to attend, as he was confined to bed. An interesting discussion on carnation growing took place. Robert McGowan, Albin Sanger and William Bennett were elected active members, and James Carmichael an associate member. Dr. Kitchen reported that there would be about \$50 of a surplus from the spring show.

PETER DUFF, Sec'y.

ROCHESTER, N. Y.—Daniel C. Cobb, of the Rochester Fertilizer works, at Genesee Junction, has been missing since May 1.

ELMIRA, N. Y.—Grove P. Rawson, the widely known florist, addressed the Horticultural Society on May 7, choosing as his topic, "A Garden Full of Experience." Rev. E. M. Mills, D. D., conducted a question box after the lecture.

## Asparagus Sprengerii

From 2 1/2-in. pots, good stuff, per 100, \$5.00.....

**Ficus Elastica**, true, large leaf variety, 6-inch pots, 20 inches high to 50" each.

**Crimson Rambler Roses**, extra fine, bushy plants, in 4-inch pots, will soon bloom, per dozen, \$2.00; per 100, \$15.00.

**Cycas Revoluta**, dormant stems, size from 3 to 10 lb. to 15" per lb.

**Clothilde Souper**, the great pot rose, our stock is A No. 1, 2-in. to \$3.00, 2 1/2-in. to \$4.00; 3-in. to \$5.00, 3 1/2-in. to \$6.00 per 100.

**Oahias**, 2 1/2-in. pot plants, in named varieties, per 100 \$5.00.

**Pelargonium Mme. Thibaut**, Mrs. Robt. Sandford, Edward Perkins and Dorothy, strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.

For **Cannas**, **Carnations**, **Chrysanthemums**, send us your list, we have all kinds.

**H. P. Roses**, dormant, 2-year extra fine stock to \$12.00 per 100.

**Clematis**, **Ampelopsis Veneta**, **Hollyhocks**, **Paeonies**, **Hydrangeas** P. G. etc., we have in large quantities; write us for prices.

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Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

## Good Stock! Low Prices!

**CANNAS** Strong plants of Alphonse Bonavier, Chas. Henderson, Egnardale Paul Marquet, Wm. Elliott Bisson, So. Stewart, Lambovant \$1.00 per 100, \$5.00 per 1000.

**COLEUS** Crimson Verschaffeltii Golden Queen and Golden Belder, \$2.00 per 100, \$15.00 per 1000.

**Geraniums** Double Gen Grant and S. A. Nutt 2-inch pots \$3.00 per 100, \$25.00 per 1000. Extra good, 4-inch pots, \$7.00 per 100, \$65.00 per 1000.

**Cobaea Scandens**, 4-inch pots, \$5.00 per 100.

**JOHN SCOTT,**  
KEAP STREET GREENHOUSES,  
BROOKLYN, N. Y.

## Just Arrived

IN FINE CONDITION

**Cattleya Trianae** and **C. Labiata**, also **Odontoglossum Crispum** and **Oncidium Varicosum Rogerai**.

**LAGER & HURRELL, Summit, N. J.**

## Latania Borbonica

4-inch, very fine, with 2 character leaves, \$12.50 per 100; \$120.00 per 1000.  
3-inch, very fine, with 1 character leaf, \$10.00 per 100; \$90.00 per 1000.

## Lemon Verbenas

3-inch, fine (old) plants..... \$5.00 per 100  
4-inch, fine (old) plants..... 6.00 per 100

## Rooted Cuttings

Lemon Verbena... \$1 per 100; \$8 per 1000  
Salvia Splendens, dwarf, \$1 per 100, \$8 per 1000.  
Moonflowers, in Jadoo extra, \$1.50 per 100  
Coleus Golden Belder, N. le Grant, Autumn Glow, 75c per 100; \$6.00 per 1000  
Alternantheras, yellow, from soil, 35c per 100; \$3.00 per 1000.

## Smilax Seedlings

Fine, from Jadoo, 35c per 100; \$3 per 1000

## MOONFLOWERS

2 1/2-inch pots, strong ..... \$4.00 per 100

## Critchell's

Cash with order, please. Cincinnati, O.

**PALM** Seed. FRESH ON HAND

	per 100	1000	3000
LATANIA BORBONICA	\$ .50	\$ 3.00	\$ 7.50
ARCA LUTESCENS	1.00	7.50	20.00
ASPARAGUS PLUMOSUS			
NANUS	1.50	12.50	35.00
PHOENIX RUPICOLA	1.00	7.50	20.00
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**PALMS and FERNS**  
The Largest Stock of PLANTS IN THE WEST  
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LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Araucarias, Pandanus, etc.  
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## Crotons... IN VARIETY

Rothschild, Hawkeri, Interruption, Evansianum, Rubra Lineata, Andreanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.  
Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$6 per 100.

**Edwin Lonsdale,**  
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CHESTNUT HILL, PHILA., PA.

## HERE WE ARE 4 Weeks FOR FIRST COME, FIRST SERVED.

<b>FUCHSIAS</b> in assorted varieties, double, 2 in.....	\$3.00
Single, 2 in.....	2.50
<b>HIBISCUS</b> in assortment, single and double, 2 1/2-in.....	3.00
3-in.....	5.00
<b>JESSAMINE</b> Grandiflora, 2 1/2-in.....	3.00
Grand Duke, 4 in.....	5.00
Maid of Orleans, 3 in.....	5.00
4-in.....	5.00
Arabian, 4-in.....	5.00
<b>Rhynchospermum Jasminoidea</b> , 2-in. In bloom, 4-in.....	3.00 8.00
<b>SMILAX</b> , good strong plants, 2-in.....	2.00
<b>2000 MOON VINES</b> , strong plants, 2-in... ..	3.50

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Offers clean well rooted plants as below:

Areca Lutescens, 2 ft. thick, 4-inch.....	\$25.00
Orange Trees 2 ft., full of green fruit, 3-in. pots.....	25.00
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Ferns, from flats, 8 good sorts, mailed.....	1.25

\$10.00 per 1000 by express, per dozen.

Oreodana Regia, 5-inch, 3 in a pot, (Royal Palm) 3 to 4 feet high.....	\$ 8.00
Phaenocarpum Sechellarum, 4-inch, nice plants of this fine palm.....	24.00
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" 6-inch, fit for 8-inch.....	9.00
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Well packed. Cash with order.

## Asparagus Sprengerii

\$5.00 per 100  
Cash with order. Seedlings  
American Rose Co., Washington, D. C.

## CAN YOU USE ANY

Latania Borbonica in 4-in. pots at 25 cents each.  
Kentia Belmoreana in 4-in. pots at 30 cents each.  
Cocos Weddelliana in 3 in. pots at 20 cents each.  
Vineas, fine plants..... 8 cents each.  
Dracynas at..... 25c, 35c and 50c each.  
Nice stock Rubber plants.  
If you can, send cash with order to  
**THE F. R. WILLIAMS CO.**  
WHOLESALE FLORISTS  
AND SHIPPERS OF CUT FLOWERS.  
60 Huron Street, - CLEVELAND, O.

## BORONIA BORONIA

I will have a very nice stock of these in perfect condition for autumn delivery.  
Boronia heterophylla..... from 20 cents to \$1.00 each.  
Boronia elatior..... from 20 cents to \$1.00 each.  
**AZALEAS** (Grown especially for American trade at very reasonable prices).  
Palms, Dracynones, Aroucarinas, Acacias, Kalpin, Lantifolia, Rhododendrons, Sweet Bayas, Stachys and Pyramide. Description and prices on application.  
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We offer the following leading varieties, established plants, in 3-inch pots:

	ft.	100.		ft.	100.
Alphonse Bouvier, crimson.	5	\$4.00	Florence Vaughan, spotted yellow	4	\$5.00
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Beaute Poitevine, rich crimson	3	10.00	J. C. Vaughan (bronze), vermillion	4½	4.00
Baron de Sandrans, light yellow	3½	4.00	Mme. Crozy, scarlet, gilt edge	3½	4.00
Chas. Henderson, crimson	3	4.00	Mme. Pichon, yellow striped	3½	4.00
Comte Bouchaud, yellow spotted	4	4.00	Madagascar, spotted ochre	3½	8.00
Columbia, rich crimson	3	10.00	Pres Chandon, deep orange	3½	4.00
Deuil St. Grevy (bronze), orange red	5	4.00	Papa, fine cherry red	3	4.00
Egandale (bronze) cherry red	4	4.00	Queen Charlotte, scarlet, gilt edge	3	5.00
Explorateur Crampel, orange	4	4.00	Souv. d'Antoine Crozy, gilt edge	3	6.00
Furst Bismarck, intense crimson	3½	6.00			

We call special attention to the following "sets" of new varieties. They are all of great merit and should be tried by everyone interested in Cannas:

### Select Set of Six New Cannas for 1898.

Goliath, the finest crimson extant. Menelek, rich nasturtium red.  
 J. D. Eisele, vermilion scarlet. Sam Trelease, nearest to a pure scarlet.  
 Furst Von Hohenlohe, the best yellow. Sunray, striped red and yellow.  
 One each of the above six for \$3.00.

### Set of Eight Best Italian or Orchid Flowered Cannas.

This set is the "cream" of over 30 varieties introduced last year at \$3.00 to \$5.00 each. America, orange salmon, feathered and veined, scarlet, bronze foliage, 35c. each. Allemania, light and dark salmon, golden markings, flowers immense size; 30c. each. Africa, orange salmon, deepening to scarlet, rich bronze foliage; 30c. each. Asia, bright yellow with red spots in throat; 30c. each. Aphrodite, salmon, edged and feathered light yellow; 30c. each. La France, similar to America, but with darker foliage; 30c. each. Pandora, salmon, marbled with scarlet, bronze foliage; 30c. each. Suevia, yellow, with red dashes, very large flower; 50c. each. One each of the eight varieties, \$2.00.

Set of Six Best of Crozy's Introduction - Depute Ravarin, rich garnet. Mme. Leon Leclerc, scarlet, tipped and edged gold. Jos. Combet, velvety cardinal. R. Pearson, golden, dotted red. Mme Favrichon, carnine, with orange sheen. Sec Chabanne, rich salmon, distant shade. 35c. each, or the set of six varieties for \$2.00. Full descriptions of the above found on pages 26 to 29 of our current Wholesale Catalogue.

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Spotted Leaf Calla Per 100, \$2.50  
 Per 1000, \$20.00  
 Begonias, Gloxinias, Etc. at Close Figures.

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 10 to 12-inch, per 100, \$40.00.  
 12 to 14 " " " 45.00.  
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Tuberose...		Speciosum Lilies...	
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Dwarf Excelsior Pearl, strictly first size	.85	\$7.50	Album..... 7-9 inch..... \$4.50
3000 for \$19.00.			"..... 9-11 "..... 5.50
Second size.....	.50	3.50	"..... 11-13 "..... 7.50
All bloomers; 3000 for \$9.00.			Rnbrum..... 6-8 "..... 2.25
Tall Double, first size.....	.75	6.50	"..... 7-9 "..... 3.50
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HEADQUARTERS FOR "FANCY" BULB STOCK AT REASONABLE PRICES.

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**Second Year Treatment of Grafted Roses.**

ED. AM. FLORIST.—Will you kindly advise me as to the treatment of a bench of grafted rose plants which have done duty the past season? Can they be profitably lifted, potted, pruned and planted on ordinary benches for another season's work?  
B. N. I.

There is no reason why grafted rose plants cannot be lifted and potted, and replanted afterwards in the benches, as well as those on their own roots, though I can see no good reason for going to the trouble of potting at all. Unless very large pots are used, say seven or eight-inch, it will be necessary to remove every particle of soil from the roots, and in all probability cut away much of the root as well, and such treatment for a growing plant in the hottest weather could not be recommended. Again, if pots larger than 5-inch are employed, it will be impossible to set them out properly on a shallow bench. If the soil they are now growing in is of fair quality, and the plants are in good health, why disturb the roots at all? Would it not be better to give them a short, partial rest, then prune, topdress and start again? I think this is the better plan if it can be carried out. The difficult part of the programme is the holding of the plants in a semi-dormant state for any length of time when all the natural conditions are in favor of rapid growth, without going to the extreme of dryness, in which case the wood will shrivel, the roots will be destroyed, the whole plant receive a severe shock, and instead of storing up energy during the resting period as we intended it should, it will be robbed of practically all the vitality that it previously possessed. I believe that when a rose has been growing continuously for twelve to fifteen months it is entitled to and will be benefited by a period of rest, but when that rest has to be given by withholding water during the hot months of July and August it is better to rest too little rather than too much. We have usually allowed about six weeks from commencing to dry off to the time of pruning. Whether it is best to prune hard back, that is, to within 12 or 15 inches of the ground, opinions differ, and each grower must determine for himself. If the bench contains not more than four inches of soil, it will be advisable to add about two inches of good, rich material; if they are not deep enough to allow it, nail strips on top of the side boards; grafted plants are great feeders. If "B. N. I." wishes to transfer his plants to another house rather than continue them in the same benches, I would advise him to rest as recommended above, then prune, lift with considerable soil attached, and replant at once on the other benches. They should be watered rather sparingly until growth commences and root action is well established, but after that can be treated the same as young plants.  
ROBT. SIMPSON.

DUNSMITH, COL.—The large display of the Park Floral Company attracted much attention at the Pure Food Show last week.

NEW BRITAIN, PA.—The Pittsburg Clay Manufacturing Company's plant was destroyed by fire May 3. Loss \$15,000. The concern employed forty men in making flower pots.

SANTA ROSA, CAL.—This is Sonoma county's banner year in floriculture and horticulture and the horticultural society will take advantage of the conditions to give a "Fruit and Flower Show"

**Roses! Roses!**

In A-1 stock of all the leading varieties. Now ready at reasonable prices.

**CARNATIONS**

Only a few left of Lily Dean, the best of all the fancy varieties....

**JOHN N. MAY, - Summit, New Jersey.**

**Chrysanthemums**

All the new ones of this year's introductions and all the best of former years in splendid condition for immediate shipment.

**GANNAS** All the really good distinct varieties in extra strong stock from 4-inch pots. Write for special prices on large orders to

**AM. BEAUTIES**

FINE PLANTS from 3-inch pots, \$10.00 per 100; \$90.00 per 1000.

**JOSEPH HEAGOCK WYNCOTE, PA.**

**Mrs. Robt. Garrett**

NEW PINK FORCING ROSE

Winner of 6 certificates, medal and silver cup. \$3.50 per doz., \$25.00 per 100. A fine stock of young chrysanthemums and carnations. Send for trade list describing above in detail.

**H. WEBER & SONS, Oakland, Md.**

**ROSES..**

	2-in. per 100	3-in. per 100
Am. Beauties ..		\$5.00
Perle .....	\$2.75	4.50
Bridesmaid ...	2.75	4.50

**MAPLEWOOD CUT FLOWER and PLANT CO. PLEASANT HILL, MO.**

**Memorial Rose**

(Rosa Wichuriana)

Strong field-grown plants, \$50, \$75 and \$100 per 1000

**SAM'L C. MOON, MORRISVILLE, Bucks Co., PA.**

**ROSES...**

PERLES.....	} Pots 100	} Pots 100
METEORS.....		
BRIDESMAID.....		
BRIDE.....		

Guaranteed first-class. Stock grown in low temperature.

**THE E. HIPPARD CO., Youngstown, Ohio.**

**2-YEAR-OLD ROSES**

from 1-in. pots in variety \$6.00 per 100  
CARNATIONS, \$2.50 per 100 from 2 1/2-inch pots. Scott, Fortin, Metowan; also all young roses and general stock

**THE NATIONAL PLANT CO. DAYTON, OHIO.**

**Do You Need Young Rose Stock**

for planting out of 3-in. pots. A dollar more on the hundred is nothing if you get better stock. Send for or all the stamps for samples of what you want to

**GEO. A. KUHL, ...PERKIN, ILL.**

Mention this paper

**ROSES OWN ROOTS.\* DORMANT.\* FIELD GROWN**

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet  
Yellow Rambler (Aglala)  
Hybrid Perpetuals,  
Mosses, Hardy Climbers and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager, 1308-1310 Unity Bldg., - CHICAGO, ILLS.**

**H. P. ROSES**

FROM 2 1/2 INCH POTS.

Strong, thrifty, well established plants. General price \$4.00 per 100. Extra fine lot of Crimson Ramblers. . . . .

**Jackson & Perkins Co. NEWARK, NEW YORK.**

**ROSES**

From 3-inch Pots at 9c. Fine clean plants. Price reduced to close out, only a few hundred each. . . . .  
Genl. Jacqueminot, La France, Coquette des Blanches, Coquette des

Alps, Louis Odier, Clothilde Souper, Jules Marzotten, Packed free. Clematis: Henryl and Miss Bateman, the leading large white sorts; fine 1 and 2-year field-grown plants like Clematis Virginia, sweet scented, small white flower, 2-year, fine, 6c.

**W. H. SALTER, Rochester, N. Y.**

**Do You Plant Beauties?**

Am. Beauties, 3 inch at \$5.00 per 100. Not cuttings, but clean, strong, well grown stock and guaranteed free from all disease.....

**A. DONAGHUE, 108 S. 16th Street, OMAHA, NEB.**

**ROSES**

Strong healthy plants from 2, 2 1/2 and 3-inch pots at \$3, \$4 and \$6 per 100. Perle, Sunset, Brides and Maids, Gontier, Pink and White La France, Siebrecht and Morgan. Am. Beauty, strong 3-inch, \$8 per 100. Coleus and Verbenas, \$2.50 per 100; \$20 per 1000.

**IRISH JUNIPERS** for transplanting, well rooted, 5 to 7 inches. Sample and prices on application.

**JOSEPH HEINL, Jacksonville, Ill.**

**AMERICAN BEAUTY**

Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100, \$70.00 per 1000.

**EDWIN LONSDALE, Wyndmoor, Chestnut Hill, Cash with order. PHILADELPHIA, PA. Money order office, Station 11, Phila**



Cleveland.

WEATHER EFFECTS STOCKS AND CAUSES A RISE IN PRICES.—CARNATIONS ARE ALL ABOVE A DOLLAR A HUNDRED.—FAVORITES.

For some time previous to a week ago we suffered from cold, damp and altogether disagreeable weather which was very unfavorable for the production of roses and carnations, which are our mainstay for cut flowers now that bulbous stock is practically exhausted. As a result the latter end of last week developed a decided scarcity in both these staples, and every one was hustling for stock, which in many cases failed to materialize in spite of every effort to coax it out. Business has been steady, nearly every one reporting a fair sale for all good stock.

Sweet peas have been offered in small quantities for the last month and are now coming in more plentifully. They are of good quality, the price ranging from 50 cents to 75 cents per 100. The prevailing variety is Blanche Ferry, while next in evidence are Emily Henderson and Lavender.

Carnations are selling at from \$1.25 to \$1.50 per 100 for good stock, although the sudden scarcity of last week forced the prices for a short time, and for only a few sales, to \$2 per 100. Bride, Bridesmaid, Meteor and other good roses are wholesaling at \$3 to \$4 per 100. They are still excellent in size, color and foliage, although the cold weather has, in a few cases, developed mildew. We are now, however, enjoying typical May weather, and the planting of bedding stock can begin at almost any time; in some cases, indeed, has already begun. A.

**CHRYSANTHEMUMS!**

All the very best commercial varieties, viz:

Marquis de Montmort, Lady Fitzwigram, Bergmann, Merry Monarch, Glory of Pacific, Robinson, Henderson, M. M. Johnson, Golden Trophy, D. Spaulding, Vivian-Morel, Mrs. Perrin, Ivory White, Ivory Pink, M. Bonnaffon, Mayflower, Modesto, Jerome Jones, white, yellow and pink, Maud Dean, H. W. Riegan, Lottie Berry, Maud Adams, Emil Bottner, Grecian Bottner. Stock unexcelled and very large quantity of it ready. Let us book order for now or future delivery. 2 1/2 inch, \$3.00 per 100. Cuttings, rooted, \$2.00 per 100.

**POEHLMANN BROS.**  
MORTON GROVE, Cook Co., ILL.

**500 Canna Austria**

Strong started plants @ 2c each, or will exchange same amount for Madame Crozy.

**W. W. COLES, Kokomo, Ind.**  
**FOR SALE**

About 600 Hydrangeas in 7-in. pots, strong thrifty healthy stock, in bloom. Apply at once to

**Chas. Frueh,**

1116 Hoyt St., : : SAGINAW, E. S., MICH.

**THE AMERICAN FLORIST'S COLOR CHART**

is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.

PRICE 15 CENTS POSTPAID.

AMERICAN FLORIST CO., 322 Dearborn St., Chicago

**ORDER AT ONCE AND SECURE STOCK**

**CHRYSANTHEMUMS**

Rose Owen, J. H. Woodford, Dorothy Devens, G. F. Atkinson, Golden Trophy, T. B. Morse, Pres. McKinley, Western King, The Herriott, Surprise, Marcia Jones, Elvena, Miss Helen Wright Belle of Castlewood, Chito, C. W. Ward, Mrs. S. T. Murdock, 75 cts. per dozen; \$5.00 per 100. Glory of Pacific, Maud Dean, Mrs. R. Crawford, W. P. Raynor, Modesto, Lenawee, Pride of Castlewood, Bonnaffon, Ivory, Ruth Ellis, 50 cts. per dozen; \$3.00 per 100. Frank Hardy, T. H. Spaulding, Mrs. O. P. Bassett, The Yellow Fellow, Madeline Pratt, Mrs. C. H. Peirce, Merry Christmas, 35 cts. each; \$3.00 per dozen. Snow Queen, Pennsylvania, 50 cts. each; \$5.00 per dozen. W. H. Chadwick, \$1.00 each; \$6.00 per dozen.

**CARNATIONS**

Jno. Young, Bon Ton, Mrs. Jas. Dean, White Cloud, New York, Empress and Evelina, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. C. A. Dana, Mayor Pingree, \$5.00 per 100. Storm King, fine from soil, \$2.00 per 100; \$15.00 per 1000.

**CANNAS**

Pres. McKinley, Defender, Pres. Cleveland, Tarrytown, 60 cts. each; \$5.00 per dozen. Ami Pichon, Paul Marquant, J. D. Cabos, L. Balley Florence Vaughan, \$2.50 per 100. Eldorado, A. Billard, Count de Bouchard, \$4.00 per 100.

For full description send for our 1898 wholesale list.

**THE COTTAGE GARDENS, Queens, N. Y.**

**Chrysanthemums**

Mrs. S. T. Murdock, Mme. F. Bergman, Whilldin, H. L. Sunderbruch, Eda Prass, Inter Ocean, V. Morel, Childs, John Shrimpton, Niveus, Golden Wedding, Mutual Friend, C. B. Whitnall, Bonnaffon, Robinson, Philadelphia, Dailedoaze, Ivory, Yellow Queen and others. 2 1/2 and 3-inch pots, \$2.50 per 100. . . .

**Mrs. A. F. Wienold**

McDONALD & STEELE, Crawfordsville, Ind. 20c each, \$1.50 per doz., \$10.00 per 100.

**Chrysanthemum PRESIDENT GRAHAM**

Yellow Sport of JEROME JONES.

It received the biggest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

**NATHAN SMITH & SON**

Wholesale Florists

Specialties ADRIAN, MICH.

CHRYSANTHEMUMS

CARNATIONS

AND VIOLETS

... CORRESPONDENCE SOLICITED ...

**SPECIALTIES**

IN BEST VARIETIES.

ROSES, from 3-inch pots.  
CARNATIONS, for fall delivery.  
CHRYSANTHEMUMS.  
SMILAX.  
VIOLETS.  
Prices low. Send for list.  
WOOD BROTHERS, FISHKILL, N. Y.

**West Islip Greenhouses**  
**MARIE LOUISE VIOLETS**

Rooted Runners, \$4 per 1000.  
Cash with order.

E. B. SUTTON, Jr. P. O. Address... BABYLON, N. Y.

**New CARNATIONS.**

WHITE CLOUD—White.  
GOLD NUGGET—Yellow.  
NEW YORK (Ward)—Bright cerise pink.  
MRS. JAMES DEAN (Ward)—Clear silvery pink.  
JOHN YOUNG (Ward)—White.  
BON TON (Ward)—Scarlet.  
Prices for above varieties: \$2.00 per doz., \$10.00 per 100, \$75.00 per 1000.

We will also have Cerise Queen (Breitmeyer), Argyle (Stollery), Jack Frost (Swayne), Empress (Swayne), Evelina (Witterstaeter), Firefly (Hancock), Psyche (Hill), Painted Lady (Hill), and Mrs. S. A. Northway (Simmons).

All good 1897 novelties and other standard varieties at reasonable prices.

**New Chrysanthemums.**

MRS. C. H. PEIRCE—Yellow.  
3 1/2c each, \$3.50 per doz., \$25.00 per 100.  
SNOW QUEEN—White.  
50c each, \$5.00 per doz., \$35.00 per 100.  
MERRY CHRISTMAS—Late White.  
35c each, \$3.50 per doz., \$25.00 per 100.

Send for Descriptive Price List.  
Ready January, 1898.

**F. DORNER & SONS CO.**  
LAFAYETTE, IND.

**Vinca** MAJOR Var. Per 100  
From 1-inch pots, \$7.00  
From 2-inch pots, \$3.00

**Sonnenschmidt & Junge**  
456 E. Washington St. INDIANAPOLIS, IND.

Milwaukee.

FRANK DILGER'S FINE ESTABLISHMENT.—FREYTAG'S SUCCESSORS.—ARCHIE MIDDLEMASS AND OTHERS.—CHANGES AND DEVELOPMENTS.—NOTES.

At Frank P. Dilger's establishment one is impressed by the progressive atmosphere, which is always equally beneficial to the plants and pleasing to the customer. I learn something on every visit. Here are a lot of echinocactus, both pink and scarlet, pot plants handsomely in bloom. A few feet further is a batch of *Fartugium grande*, beautifully colored. Just beyond is a bed of gentiana, with their tall spikes of curious bloom. Then there is a corner of magnificent begonias and a bunch of iris. Such a house delights a florist. It is such a relief from the regulation show of carnations, roses and violets. I never saw better bulb stock than his. Mr. Dilger has his bulbs planted in flats, covered with eight inches of soil, and over this a heavy coating of straw. They grow long and may be kept until required. One batch is being held for Memorial Day, which is late even for garden bulbs. As bulb stock has been scarce for a few days, Mr. Dilger was digging out a few flats when I called. They were a beautiful assortment of pink and light blue hyacinths with foliage quite light, flowers larger than Romans but smaller than the perfect Dutch. Frank says they are ready for market in three days after they come out of the straw, and these were bulbs that bloomed a year ago.

Chas. Zephnick's place might be called Pansy Hill. Frame after frame are seen outside, and when you look into the houses whole benches of pansies salute you.

Jacob Freytag & Sons are devoting their establishment to meeting the demands of local trade, and they do it well. They grew 8,000 fuchsias almost to perfection. Their smilax is in beautiful condition and they have had a grand display of *calceolarias*. Their palm and fern house shows the result of much care. The ferns are mostly in pans. I was delighted to see a *Glorie de Dijon* in bloom. It is an old timer among roses. They have a fine bench of cannas and their carnations are blooming nicely.

Archie Middlemass has not been idle. His many houses are full of excellent bedding stock, geraniums and colons in particular, with a variety of pansies and seedling verbenas. For present cutting *amaryllis* and *adiantum* are beautiful.

Geo. Volk's houses are situated in a fertile valley, low and level, and a large field of tulips reminds one of Holland. His pink sweet peas, Daybreaks, *Asparagus plumosus* and *Sprengerii*, are far above the average in quality, while a strikingly attractive bench is of dark *heliotrope*. Mr. Volk is recovering his health and will, no doubt, be able to be about in a week or two.

Geo. Ringrose's yellow daisies take the cake. M. J. Riels, a well-known amateur, has a lot of seedling *pronies* which will bloom this season. Charles Mann is arranging to supply the demand for a pink double-flowering crab.

There has been some maneuvering in the flower trade of late. The flower department at Fox's, on Milwaukee street will hereafter be conducted in Fox's name. The clerk help has been considerably changed. D. K. Jones, the druggist, who has conducted a flower department for years, has leased the department to William Ldelsen, of Third street, who will conduct this place as an East Side branch. Mr. Inos, who has been selling flowers on Grand avenue, is reported to have sold

out for \$240. Many flower stands are being started at various places on the East Side. Meadero's drug store, at Van Buren and Biddle streets, has a flower department and W. G. Schuch is doing well on upper Ogden avenue. He has named his place "The Palm House." Mr. Shaw, of New York, spent some time in Milwaukee on his annual trip, as did F. R. Pierson's agent.

We learn that there is a Florists' Club here for a fact, that the officers conducting it are Frank Dilger, president; N. Zweifle, secretary; A. Billings, treasurer.

Holton & Hunkle Co., will add a bulb department to their business next season.

Chicago flowers are coming to Milwaukee more than they have of late.

C. B. W.



.....YOU WANT THIS.....  
**FOR DECORATION DAY**

Vase for the Cemetery

THE CLARA CEMETERY VASE (Patent applied for by Mrs. C. W. Pike.)

A Receptacle for Flowers, Long Needed for the Cemetery.  
The CLARA VASE for use at the Cemetery is a handsome as well as one of the most useful articles ever placed on the market. It is absolutely a new thing and takes the place of all the old tin cans, bottles and various old trucks that are usually found in the cemetery for holding flowers, and prove such a disgrace where everything else is beautiful and ornamental. It is composed of solid glass and stands about twelve inches high. The lower end is sharp-pointed so it can be embedded about 1 1/2 inches in the ground and stand firm. It will hold sufficient water to keep the flowers fresh and sweet, and will accommodate flowers with long as well as short stems. The VASE is bell-shaped and the top has a diameter of about five inches. The VASE is sold at a very low price and is within the reach of all classes. It is very strong and well made and can not be broken by rough handling.

Prices, delivered to railroads or express companies in Chicago:  
One dozen..... \$3.50  
Three dozens..... at 3.25  
Five dozens..... at 3.00  
Samples sent on receipt of fifty cents (50c) each.  
These VASES will retail in the market for from 50c. to 75c. each, thereby giving the dealer a profit of over a hundred per cent on his investment. Address all orders to

**BASSETT & WASHBURN,** Wholesale Cut Flowers and Florists' Supplies,  
88 Wabash Ave., CHICAGO, ILL.

**Herr's Smilax**  
Sample plants sent for 10 cents.  
75 cts. per 100, or \$5.00 per 1000.  
**CARNATION EXPERIENCES.**  
A few hundred left, send your address and get one free.....  
**ALBERT M. HERR**  
Lancaster, Pa.

**CARNATIONS**  
STRONG, HEALTHY ROOTED CUTTINGS  
Ready Feb. 1st and Later  
Including Morello, Flora Hill, Daybreak, Wm. Scott, Lizzie McGowan, Ivory, Silver Spray, Emily Pierson, Goldfinch, Eldorado, and others. Send me a list of what you want and get prices before you buy. We also have a fine lot of Carnation and Violet blooms for sale. Write for prices. Address

**CHAS. CHADWICK,**  
Lock Box 11. GRAND RAPIDS, MICH.

**FLORA HILL**  
The best of all whites.  
Reduced price. \*\*\*  
**H. F. LITTLEFIELD,** Worcester, Mass.

**FLORA HILL CARNATION.** It sells because there is nothing in sight to it at all equal to it. It speaks for itself wherever grown. It is fragrant. It is the largest bloom. It puts all others in the shade. Nothing put or present to equal it. We have four thousand plants exclusively for propagating from; don't allow them to bloom. Send at once and get the best stock ever offered. \$1.00 per 100; \$10.00 per 1000. Cash trade list enclosed. If you have not received one send for it.  
**E. G. HILL & CO.,** Richmond, Ind.

**NEW WHITE PERPETUAL BLOOMING CARNATION**  
**Anna H. Shaw**  
The Best "All Round" White Carnation for Cut Flowers. Recommendations: Wonderful bloomer, Unusual vigor, Rapid grower, Forms strong Blooming Plants in a Very Short Time. Perfectly Healthy, Handsome Foliage. Large Beautifully Formed Flowers on Long Stems. Exquisitely Fragrant. Never Bursts, Blooms Longer and Gives More Flowers than Any other Variety Ever Offered. If you want a RELIABLE Carnation that can always be depended upon, give Anna H. Shaw a trial. Rooted Cuttings, \$1 per doz.; \$1 per 100. Strong Plants, \$1.75 per doz.; \$10 per 100. Seed for Trade List and Catalogue of Seeds, Bulbs, Plants, Cacti, Etc.  
**Mrs. Theodosia B. Shepherd,**  
Ventura (by-the-Sea), Cal.

**VERY FINE JUBILEE CARNATIONS**  
From soil, \$1.00 per 100. Well rooted cuttings, \$2.00 per 100. Good stock ready now, cash with order. Also 43 other leading varieties.  
**GEO. HANCOCK & SON,**  
GRAND HAVEN, MICH.

**Bread and Butter Carnations**  
Scott and Rose Queen for Pink; Emily Pierson for Red; Meteor, Crimson; McGowan and Kohlnoor for White. No experiment and disappointment growing these carnations. Strong rooted cuttings \$1.00 per 100, \$8.00 per thousand. Cash with order.  
**SOUTH SIDE FLORAL CO.,** Springfield, Ill.

**MUST HAVE ROOM**  
Geraniums—10,000 S. A. Nutt, 2-inch, \$15.00 per 1000; \$2.00 per 100. Rooted Cuttings from soil, \$10.00 per 1000; \$1.50 per 100. Mme. Brunet, 2-inch, \$5.00 per 100; Franco Perkin's best Pink, 2-in., \$3.00 per 100. **Dragona Indivien** Strong 3-in., \$5.00 per 100. **Colosa**, rooted cuttings, 6 kinds, 5c. per 100; Klondike, strong 2-in., \$5.00 per 100. **Begonia Vernon**, 2-inch, \$2.00 per 100. Carnation Lizzie McGowan, soil or pots, \$10.00 per 1000. Cash please.  
**CARL HAGENBURGER,** West Mentor, Ohio.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

# 3200 VINCA

MAJOR VAR.

From 2 1/2-inch pots.....\$2.50 per 100.

Two thoroughbred male ANGORA KITTENS, 8 weeks old, maltese and gray and maltese and white, \$7.50 each. A good adv. for well-kept greenhouse.

**Williams & Crittenden,**  
Waterloo, Iowa.

## KLONDIKE

Cold Fields at Your Door.

**COLEUS**—All kinds, all grades and all prices. Verschaffelt and Queen, 75c per 100; \$6.00 per 1000; 2 1/2-inch pots, \$15.00 per 1000; \$1.75 per 100. Coleus in variety, 55c per 100; \$4.50 per 1000; 2 1/2-inch pot, \$12.00 per 100; \$1.50 per 100. Ageratum dwarf blue, 60c per 100; \$5.00 per 1000. Fuchsias, standard sorts, \$12.00 per 100; \$1.50 per 100. Antehemls Corona. Golden Marguerite, \$1.50 per 100; \$12.00 per 1000. Salvia splendens, \$1.00 per 100. Vinca variegata, \$1.50 per 100; \$12.00 per 1000; 2 1/2 inch pots, \$2.50 per 100; \$20.00 per 1000; 3-inch pots, \$4.00 per 100. Heliotrope, 6 varieties, \$1.00 per 100; \$9.00 per 1000. Alternanthera Paronychioides, Major and Aurea Nana, 60c per 100. Helianthus Multiflorus, Double Golden, 2 1/2-inch pot, \$3.00 per 100. Geraniums, standard sorts, our selection, \$1.50 per 100; \$12.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000; Mountain of Snow, 2 1/2-inch pots, \$2.50 per 100; Mme. Sallerol, \$1.25 per 100; \$10.00 per 1000; 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000.

The above are rooted cuttings, except where noted. Cash with the order.

**J. E. FELTHOUSEN, Schenectady, N. Y.**

# To Clean Out.

- 2,000 Hellen Keller.....\$1.00 per 100
- 3,000 Aurea Nana..... 1.00 ..
- 1,000 Lycopodium Dent..... 1.00 ..
- 1,000 Geraniums, named, 2 1/2 in..... 2.00 ..
- 2,000 " 3 in., mixed..... 3.00 ..
- 3,000 " named, 4 in..... 5.00 ..
- 1,000 Salvia Clara Bedman, 4 in..... 3.00 ..
- 1,000 Petunias, Dreyer's Strain, 3-in..... 3.00 ..
- 10,000 Asters, Perfection, white, pink, blue and scarlet, 60c per 100, \$4.00 per 1000. Extra strong plants.

Also 2,000 Asters, Snowball.  
1,000 Fuchsias, 3 in., mixed, @ \$2.50 per 100.

**The Morris Floral Co.,**  
MORRIS, ILL.  
Please mention American Florist.

# MAY OFFER.

- Alternanthera, 2-in. pots, A. Nana, \$1.75, Per 100
- P. Major..... \$2.00
- Begonias, 2 1/2-in. pot, and Vernon..... 2.00
- Coleus, 2 1/2-in. pot, and Centaurea Gym..... 2.00
- Geraniums, 20 var., 2 1/2-in. pots, \$2.00;
- 3-in. pot..... 3.25
- Geraniums, 4-in. pots, and Double Petunias..... 4.00
- Smilax, 2-in. pots, 1000, \$9.00..... 1.00
- Primroses, ready in June, single..... 2.50

CASH PLEASE.

**JOS. H. CUNNINGHAM, - Delaware, Ohio.**

## BARGAINS IN PLANTS FOR CASH

- French Cannes, Crozy, Queen Charlotte, per 100
- Florence Vanhan, etc., fine plants..... \$4.00
- Geraniums, Double Grant, 2 1/2-inch pots..... 2.00
- Salvias, Clara Bedman, 2 1/2-inch pots..... 2.00
- Coleus, 5 varieties, fine, 2 1/2-inch pots..... 2.00
- Regonie Vernon, fine 2 1/2-inch pots..... 2.00
- Mountain of Snow Ceranium, 2 1/2 in. pots. 3.00

Order at once and get good stock.

**NICHOLAS AMOS, Crestline, Ohio.**

## HARDY PINKS

2 1/2-in. pots; Souv. de Sale, \$3.50 per 100; Her Majesty, Glen Valley, Laura Wilmer, Gertrude, \$3.00 per 100.

## VIOLETS...

2 1/2-in. pots; Admiral Avellon, Princess of Wales, \$3.50 per 100; Luxome, California, Campbell, Swanley White, \$3.00 per 100.

**THE CONARD & JONES CO., - West Grove, Pa.**

# 100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000; \$50 per 10000

**NO RUST OR MILDEW.**

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## 5,000 SMILAX...

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Geraniums from 2-inch pots, \$2.25 per 100; \$20.00 per 1000. Cash with the order. Send for samples. **Fred Boerner, CAPE MAY CITY, N.J.**

Omaha.

THE LANDSCAPE GARDENING AT THE TRANS-MISSISSIPPI EXPOSITION WHICH OPENS WITH JUNE.

The landscape features of the Trans-Mississippi exposition have progressed so far that beauty can now be discerned at almost any part of the spacious grounds. The Court of Honor is fast assuming a finished appearance, with broad walks and parking in front of various buildings connected with colonnades bordered by lawn and shrubbery. In the lawn we see numerous spots left for flower beds. In the center of the court is a broad lagoon in the west end of which, in front of the massive government building, a fine electric fountain will be displayed.

Across the center of the lagoon, now nearing completion, a bridge of artistic design connects either side with an island which will be a spot of beauty. Here are spacious flower beds ready to receive the various plants which will greatly add to the beauty of the court.

At the east end of the lagoon is a great viaduct over Sherman avenue, connecting the Grand Court with the Bluff tract, where the principal agricultural, horticultural and state exhibits are to be made. In passing over this viaduct one is afforded the most pleasing landscape view of the exposition. In the foreground is the Grand Plaza, bordered by trees of symmetrical shape, while to the east the work of the landscape architect is displayed in shrubbery and bordered walks. In the background, interwoven, if I may use the term, is the natural scenery, the Missouri River and the timber covered bluffs of Iowa.

Around the horticultural building are flower beds of every shape and style, and opposite to the main entrance to the building a large aquatic basin awaits exhibits. There are to be two other outdoor displays of aquatics, and the beds will be filled with exhibits from all parts of the Union.

More than ten thousand trees and shrubs have been planted in the past few months and are showing a very fine growth.

The landscape designs are the work of R. Ulrich, of Brooklyn, N. Y., a man of national reputation, who also had charge of the World's Fair grounds. Jos. Hadkinson, assistant to Mr. Ulrich, has executed the work with great care, and at present is one of the busiest men on the grounds. At one time this department had something like four hundred men on the pay roll.

Worcester, Mass.

The weather is becoming more spring like and planting out will soon be at its height but as yet little has been done, as the last two weeks have been wet and cold. Flowers still continue to be fully up to the demand and the quality has not commenced to deteriorate. Trade is holding up fairly well and prices remain firm for first class stock.

Visitors in town: J. Blannoy, Holland, and John Kingier, representing J. C. Vaughan, Chicago.

The most of The Oakwoods Cemetery Association has re-elected C. W. E. Haynes as president and John Rathbun as superintendent.

Todday, O. The floral decorations which George A. Hand prepared for the Sever Barnes wedding surpassed anything in that line heretofore attempted in Toledo.

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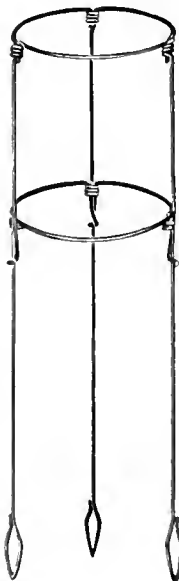
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 Yours truly, E. ASHES.

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Nashville, Tenn.

The cut flower trade has been unusually dull for the past week. The plant trade is rather active, and in a few more days all, or nearly all, the planting for the season will have been done, and the front yards of Nashville's many pretty residences will be gay with all sorts of blossoms. Plants are very cheap, twenty good varieties selling for \$1. The market house, which is never without its quota of flower sellers, displays daily an immense stock of every kind of plant, and quite a good business is done there. The marketers are, for the most part, the many smaller growers from the outskirts of the city. They also sell bunches of cut flowers at remarkably cheap prices, the stock, however, would hardly be shown in the floral stores. Still it finds purchasers, and the goodly housewife leaving the market with a generously laden basket, frequently finds room upon the top for a good-sized bouquet which costs but 5 or 10 cents.

Some of the wealthy amateur florists adjacent to the city are showing fine specimens of the Baroness Rothschild and Mrs. J. Laing varieties of roses, grown in gardens where the rich native soil has not been exhausted by long cultivation. The florists may handle these if they choose, as the growers are not averse to selling, but as a general thing the blooms are distributed to the friends of the growers, as many as 100 at a time.

Florists are filling outside beds for summer blooming, although the nights are still cool and frosty, so as to give the plants time to become established before the spring drouth comes on, followed by our long, hot, dry summer. Greenhouses will soon be emptied of their stock and replanted for next season.

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GREENSBORO, ALA.—The rose show by the Presbyterian ladies, April 22, was a great success. Prizes were awarded to Mesdames C. E. Waller, P. A. Tutwiler, J. M. P. Otts, A. L. Stollenwerch, L. M. Otts, and T. R. Ward.

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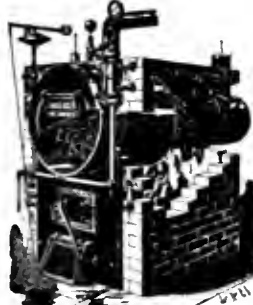


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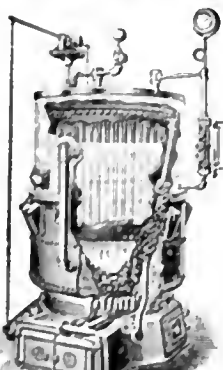


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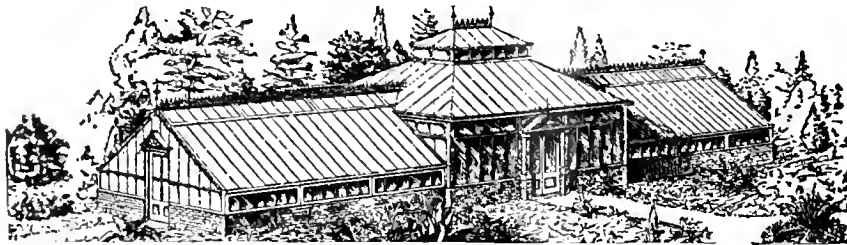
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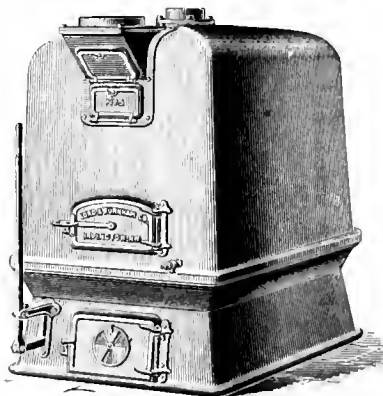
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## THE AMERICAN FLORIST

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Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

**CHRYSANTHEMUM SOCIETY OF AMERICA.**  
Annual meeting at Omaha, Neb., August, 1898.  
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### Seed Breeding.

It is a fundamental law of nature, one upon which the stability of the animal and vegetable kingdoms rest, that every living organism is like the one which produced it. Men do not "gather grapes from thorns nor figs from thistles," but simple as the law is in its statement, it is far from simple in its development and results. Not only is the character of every animal and plant influenced by that of its immediate parents, but through them its ancestors back for many generations exert an influence on it, and because of this, and the varying degrees of potency of these many influences, each individual animal or plant differs in some degree from every other. It is evident that the more nearly alike all these ancestors and hence their influences are, the more certain we may be that their descendants will be like them. If you know that back for twenty generations each of the 2,097,150 ancestors of an unborn colt were black we could be sure that the combination of all these influences would result in its being black, but if we only knew that the father and mother were black and knew nothing regarding the 2,097,148 other ancestors we would not be so certain. It is true that the influence of the immediate ancestors is usually greater than that of any one of the preceding ones, but supposing the father and mother were black and the 2,097,148 other animals were all white the influence of the first two would have to be more than 1,046,574 times as strong as the average influence of each of the others in order to overbalance them, while if no two of the 2,097,150 were exactly alike in color it would be impossible for any one to tell what the combination of all these influences would produce.

Although these principles of heredity are not so easily traced in the vegetable as in the animal kingdom, they are at work there in the same way, and an illustration of their working in animals is equally an illustration of their working in plants, and whether we merely glance at such figures as we have given or look into the subject more fully, we shall feel assured in proportion as we give the subject careful study that the chief factors in determining the character of every animal and that of the plant every seed will produce are the influences exerted by its ancestors. A pedigree is a record of ancestry, and in so far as it is truthful and complete it enables us to predict with certainty the character of an unborn animal or the plant our pedigreed seed will produce. In the illustration given we are certain that the colt would be black, but we could not tell whether it would be

big or little, fast or slow, gentle or vicious. All these qualities would depend upon the combination of other influences of which we know nothing. All the plants of a given variety are in a general way alike, but there is a wide difference in the degree to which different plants of the same variety show the distinctive merits of the sort. If our pedigree simply states that every ancestor was of a certain variety, we know that our plant will be of that variety, but we cannot know how well it will show the distinctive merits of the sort any more than in the illustration we could tell what sort of a black colt we would have.

Simple and plain as these principles of breeding are, so simple and plain that it seems childish to state them, they are often ignored by seed breeders who are content to simply know that no mixed or "off" plant is allowed to exert its baleful influence; but if we are to produce the highest and best type of a sort we cannot be satisfied simply to know that every ancestor was of the sort, but must know that each one was the highest and best type of the sort in its generation. To this end a very clear and perfect conception of what the best plant of that sort should be, not only as to one characteristic, but as to all, is very essential. In this respect our seed breeders are far behind those who make different breeds of animals a study, and because of this failure on their part our varieties of vegetables and flowers are constantly changing and "running out." Let me illustrate by an actual experience: Some years ago I visited a cabbage grower who had raised his own seed for more than twenty years and was said to have established a variety of great merit. I went with him into one of the finest ten acre fields of cabbage I ever saw and asked him to select an ideal plant of his variety. He did so, and I carefully noted its every characteristic. We went to another part of the field and I asked him to select a second. He did so, and this plant differed materially from the first in length of stem, size, color and shape of outer leaf, shape and color of the head. In short, was as different from the first as are most varieties, though both were good market cabbages. He selected for me five ideal cabbages such as he would save for seed to breed from, and no two were alike. In answer to questions he said he simply looked for a good market cabbage, paying no attention to other points. He was a splendid cabbage grower, so good that every one wanted to get hold of his variety; but it is strange that in the hands of other cultivators it seemed to "sport" badly, to lose its character and to "run out." The first requisite, then, for the production of good, of

MORRISON, ILL.—R. K. Davis has sold out his wholesale and retail floral establishment to M. E. Miller, of Polo, Ill.

pedigreed, seed is a clear conception of exactly what you want a plant of that variety to be, and the clearer this conception is as regards every part, even of those that are not a part of the market product, the better. WILL W. TRACY.

**Experiments with Chemical Fertilizers on Greenhouse Plants.**

*Paper read by Professor W. E. Britton before the New York Florists' Club, May 9, 1898.*  
(CONCLUDED FROM LAST WEEK.)

**CARNATIONS.**

During the winter of 1896-97 a few carnation plants were grown by the aid of fertilizer chemicals, and the results were such that we were induced to plan and carry out the following season an experiment with carnation plants. Over 200 plants of three varieties, Daybreak, Alaska and Wm Scott were used. Benches were five and three-fourths inches deep and were divided into equal plots having an area of 14.53 square feet. Two plots were filled with compost and the remaining plots with coal ashes with 3% of peat moss. Six plants of each variety (making eighteen in all) were set in each plot about the second day of October. All dead leaves and lateral buds were saved from each plot separately, and later analyzed. The blooms were picked when well open, and in about the same manner as they would be gathered for market, except that the diameter of each flower, length of stem and any imperfection or characteristic was noted and all carefully recorded. Flowers of each variety from each plot were also weighed. Chemical analyses were made of the cut flowers, and from the fresh weight of the blooms it was possible to calculate the amount of plant food which had been removed from the soil in the flowers. Analyses of the plants were made at setting time, and at the close of the experiment the old plants were removed carefully from the soil, tops and roots, and these, with the trimmings, were also analyzed. From these analyses we were able to tell the exact amounts of plant food which the plants contained at the start, and how much the plants in their flowers, foliage and roots, had taken from the soil. Knowing the quantities of fertilizer chemicals which had been applied to the coal ashes, we were thus able to make some definite calculations as to what the carnation requires chemically for its development.

By means of the plants growing in the compost soil we were able to make a rough comparison. Plants in coal ashes made a good growth, foliage looked well and they bloomed more freely than the plants in compost. With Daybreak and Alaska, the blooms were larger where grown in coal ashes, but with Wm. Scott there was scarcely any difference. This variety (Scott) was attacked by a disease, which many of you doubtless know under various names such as "stem rot" and "die-back," so that the experiment was impaired as regards this variety. The disease was worse on plants in the coal ashes and peat than on those in compost, though both were attacked, and it is very probable that flowers produced by these diseased plants were below the normal in size and number. The largest yield came from a plot filled with coal ashes and peat fertilized with chemicals, an average of 27.3 blooms per plant or 3,384 blooms per 100 square feet of bench space being produced. The largest crop was gathered from the plot in which forty grams of nitrogen, twelve of phosphoric acid and sixty of potash were mixed with

the ashes and peat. This is equivalent to a dressing of 3 lbs. 14 oz. nitrate of soda, 1 lb. 1 oz. dissolved bone black and 1 lb. 13 oz. muriate of potash for each 100 square feet of bench space.

The plants when set contained about as much plant food as was taken off in the crop of blooms which they produced. This season we have continued the experiment, but the plants have not done as well in either soil as last season. Cohesion of petals which is known as "sleepiness" among some growers, was peculiar

the numbers of flowers taken from the two plots. The soil of coal ashes gave larger blooms, but they were rather lighter in color than those from the compost plot. Both were equal as regards fragrance and form.

During the winter both plots have shown good thrifty plants with perfect foliage and free from mildew.

**WAGNER'S SOLUTION.**

Some four years ago potted plants were fertilized with soluble plant food, prepared after a formula recommended



CARNATIONS GROWN IN COAL ASHES AND PEAT MOSS.

to the Wm. Scott variety, and did not seem to bear any very close relationship to the quantities of nitrogen applied. It is the opinion of certain growers that this trouble is caused by too much nitrogen. We are not yet prepared to say whether they are right or wrong.

**ROSES.**

In October, 1897, a small section of bench space in the forcing house was equally divided, and one-half filled with compost, the other with coal ashes and peat moss. To the latter was added fertilizers as follows: 15 grams nitrogen, 6 grams phosphoric acid and 30 grams potash. This is equivalent to 2 lbs. 12 oz. nitrate of soda, 1 lb. 1 oz. dissolved bone black, 1 lb. 15 oz. muriate of potash for each 100 square feet of bench space.

The area of each division was 7.26 square feet. We happened to have on hand a few roses of the Duchesse de Brabant variety. There were two large plants which had been growing for two seasons, and one was planted in the center of each plot, the other plants were of a season's growth, and four of them were planted in each plot, putting one in each corner around the larger plant. At first the plants in the coal ashes dropped their leaves more than those in the compost, but soon put out new ones and began to bloom. They have blossomed continually in both plots ever since, and at the present time there is no difference between

by Prof. Paul Wagner, Director of the German Agricultural Experiment Station at Darmstadt.

Prof. Wagner has used many solutions for watering plants, and has succeeded in growing some excellent specimen plants, according to his own illustrations, which are made from photographs. He has published the results of his work in pamphlet form.\*

**The solution contains:**

Phosphate of ammonia . . . . .	30 grams.
Nitrate of soda . . . . .	25 "
Nitrate of potash . . . . .	25 "
Sulphate of ammonia . . . . .	20 "
Water . . . . .	100 liters or 269 gallons.

We have called this Wagner's solution, and have it prepared and kept in our greenhouses for use at any time. At first this solution was given to rooted cuttings of geraniums, begonias, heliotropes, carnations and a few miscellaneous plants, which had just been potted; but the leaves began to drop, and the solution was withheld entirely for three weeks, when the plants had recovered and were making a good growth. Two plants each of begonia and geranium and four of heliotrope were potted in a compost made from good turf and one-third stable manure. To these plants no solution was given. The same number of

\*Die Anwendung künstlicher Düngemittel im Obst- und Gartenbau in der Blumen- und Gartenkultur. Third edition. Paul Parey, Berlin, 1882.

plants were potted in the same kind of soil and watered with the solution. A third lot of plants were potted in a soil of anthracite coal ashes and peat moss, prepared in a manner which I have already described, and watered with the solution. Solution was given the plants whenever they needed watering. It proved to be too much for them, and though they made an excellent growth for over three months there came a time when the growth could no longer continue. Plants grown in the compost and watered with the solution were the largest of all, while the smallest plants were those grown in the compost with no liquid fertilizer. Heliotrope plants grew as well in the coal ashes as in the compost, where both received the solution. Carnations were best in the compost where no solution was added. Geraniums and begonias grew best in compost with solution, and were better in the compost alone than in the coal ashes with solution.

Beginning September 18, this treatment was continued until about the first of January, when some of the highly fed geraniums began to wilt. It was soon found that the plants would not recover even though the soil was saturated with moisture.

The plants had been overfed, and an abundance of foliage and flowers had been produced, but the root system was exceedingly small. High fertilization does not tend to produce roots. The leaf surface increased while the root system did not until there came a time when the roots were unable to take up moisture as fast as it transpires, or is given off from the leaves. Then the plant wilts, and as long as the same conditions prevail it will not recover. We removed the plants, carefully washed the soil from their roots, trimmed their tops severely and potted them in ordinary soil, and they recovered. We have since used the same solution with excellent results, but we apply it less frequently. One application a week for slow growing and woody plants, and twice a week for the more rapid growing herbaceous plants seems to be sufficient.

The past winter similar experiences have been met in our tomato experiments. Through five successive crops, where the fertilizer chemicals were increased with each crop, the maximum limit had not been reached—that is, no injury to the plants had resulted. The maximum limit as regards profit may have been reached, but that can be determined only by a continued increase of fertilizers until there is no increase, or, perhaps, an actual decrease in the crop itself. So a still larger amount was added for the sixth crop. In certain plots of the houses the plants began to wilt after three and one-half months' growth. The plants where the wilting first occurred were situated a little less favorably as regards light and air than some of the others; a plant growing where there is plenty of sunlight can use more food, and consequently will bear high fertilizing better than a plant which has less light.

The effect of excessive fertilization is to destroy the root hairs, which are so necessary to the plant. These root hairs decay, but are quickly replaced by new ones, which in turn decay also. This is explained by Sachs in his work on the physiology of plants (page 256). The amount of readily available nutritive matter in the soil exerts a considerable influence upon the size of the root system. If the soil contains an abundance of plant food that is only slowly available, or if

only a small portion of it is available, the root system will be developed in much the same manner as in a poor soil.

In a soil containing an excess of nutritive matter which is at once available, the plant can obtain all the food it needs, or can use, without sending out long roots to gather it in. There is already plenty at its feet. Why should it tax its energy to obtain more? In this respect we may liken the plant to a man, who is very unlikely to work for his dinner if plenty be placed before him so that he can obtain it without the working. If

Between the grower and his plant—the producer and the consumer—there is often a middleman. This middleman of the greenhouse belongs to one of the lowest forms of plant life, and is called a microbe or bacterium. It has long been known that the nitrogen of certain organic substances cannot be used by the plant until the substances undergo a change or decomposition. The plant is benefited by this process because certain microbes transform the nitrogen of the proteids into nitrates—a form in which it can be used by the plants. This fact alone in-



ROSE DUCHESS DE BRABANT GROWING IN COAL ASHES AND PEAT MOSS.

the practice be overdone in either case the foundation of the individual—either plant or man—is undermined, and its strength impaired.

The great problem is: How much can we safely feed the plants? The commercial grower is also interested to know how he can obtain the best crop with the smallest outlay.

The quantity of fertilizer which we can use with safety depends of course on two important factors—the kind of plant we are growing and the form of plant food we are using. Some plants are much more sensitive than others to the effects of fertilizers, or, in fact, any cultural conditions. You who are growers of plants know this. The readiness and extent of the availability of the nitrogen, phosphoric acid or potash in any fertilizer fixes for us to a certain extent the quantities that can be used.

But after we have learned the exact requirements of the plant—how much nitrogen, phosphoric acid and potash it uses when grown in its most perfect form—one would think it might be an easy matter to apply the formula and harvest good results. It is not so easy.

It introduces a complication into the art of growing plants. This organism is called nitrifying bacteria or ferment. There is another organism which is known as the denitrifying microbe, which, instead of rendering the nitrogen available from divers inert forms, dissipates the nitrogen from nitrates so that the plant cannot get it. It escapes into the air as free nitrogen. It has been shown by several German experimenters, especially Wagner, that when fresh horse manure was used with nitrates the fertilizing effect was so depressed that the yield produced by the manure and nitrates together was somewhat less than that produced by the nitrates alone. Where the quantities used of stable manure and nitrates are known to be not excessive the only explanation of the fact is that the nitrogen was set free by the microbe life of the soil. That these microbes may occur in fresh manure has been demonstrated, and some of our own experiments show that a considerable loss of nitrogen has actually occurred from the reduction of nitrates where no extract of fresh manure was added to the soil. Extract of horse dung caused a greater loss than extract

of fresh cow dung. Potting soil from the compost heap caused a reduction in the same manner, and to about half the extent of the fresh horse manure, while the surface soil from the garden had little or no effect in destroying nitrates.

In our experiments with fertilizers for tomatoes, in every case where fertilizer chemicals have been added to a rich compost, the yield has been diminished instead of increased, and with our present knowledge of the subject we should expect that such an effect might be produced from either of two causes: (1) If the compost was enriched to such an extent that available nitrogen, phosphoric acid and potash are present in excessive quantities, or very near the maximum limit that can be safely employed, the addition of more plant food would injure the plant by destroying the proper balance between its foliage and its root system, and wilting would be the result. But this has never happened in the compost soil in our experiments. Moreover the plant food in compost is not all readily available, but gradually becomes so, and is taken up by the plant as it is needed.

(2) The other cause—the denitrifying bacteria might produce such a result by setting free the nitrogen from the soil. Where nitrates are added it is food for these bacteria as well as for the plants and might enable them to increase with greater rapidity than they could do in compost alone. Hence more nitrogen would be set free and finally more lost from the soil than has been applied in chemical form.

At one time we attempted to grow head lettuce in some soil gathered from a sandy plain and placed in our forcing house benches. It was lacking in humus, or organic matter, and we supplied it by adding peat moss. It was supposed to be deficient in plant food and fertilizer chemicals were applied in quantities sufficient to produce a crop. But the plants refused to grow and after a few weeks the leaves were of a reddish brown color, which is characteristic of starved plants. Their small size was another prominent characteristic. We knew what we had added to that soil, but we were not able to recover it in the plants.

So far as I know there is no other way of explaining this experience, except by means of the denitrifying bacteria which had set free the nitrogen so that it escaped before the plants could get it.

This, gentlemen, is the reason why I have so little to say regarding the use of chemicals in connection with an ordinary compost soil in the greenhouse. We sometimes obtain excellent results from such applications.

Again we see no benefit. If those denitrifying organisms are present, it would seem best to apply our fertilizer chemicals—or the nitrogen at least—often and in small quantities. It may be that we can destroy these microbes by sterilizing the soil so that we can use nitrates without danger of loss. But in sterilizing the soil, we also destroy those microbes that help us—the nitrifying germs. If we wish to keep these bacteria that render available the nitrogen of organic substances, I am afraid we must run the risk of having the germs that dissipate nitrogen. We may perhaps use a poor soil that has been sterilized and fertilize it entirely with chemicals, but that remains to be demonstrated.

If we can find any way of employing chemicals with sure and beneficial results, there is no doubt that in most cases it

will be cheaper to obtain plant food in this form than in the form of stable manure, which is already growing scarce in the vicinity of some of our large cities.

#### Obituary.

THOMAS CARTLEDGE.

Thomas Cartledge died on May 17 at his home at Holmesburg, Philadelphia, in the house in which he was born on July 8, 1834. His demise was the result of heart failure and general debility. He leaves a wife, a married daughter and a son, A. B. Cartledge, who some time ago succeeded to his father's interest in the widely known firm of Pennoek Brothers.

Thomas Cartledge served an apprenticeship with William Hall at Andalusia. In 1851 he engaged with Benjamin Gules at Fifteenth and Pine streets and received his first experience in city life.



THOMAS CARTLEDGE

Resigning this position in 1854 he lived with his father on the farm at Holmesburg. When the civil war broke out he enlisted and served until his company was mustered out. In 1862 he became foreman for Pennoek Bros., who had a nursery and small fruit farm in Delaware County and sold their products at the Twelfth Street Market in Philadelphia. In 1863 the call for volunteers found Mr. Cartledge again ready to take up arms in defense of his country, and he served as one of the "three months men." In this year he married Miss Emma Neil, of Burlington, N. J. Returning to Pennoek's with expiration of his second term of enlistment a small greenhouse was built, in April 1861, and from this time dates his life as a retail florist. He succeeded to an interest in the firm on the retirement of J. L. Pennoek in 1870, and under his guidance the business grew rapidly. Larger quarters being required in 1875 the property 1511 Chestnut street was purchased and one of the finest establishments in the country was erected, in which a very large business has since been conducted. It is still growing and ranks among the first floral stores of the day.

Mr. Cartledge has always been active in matters looking to the elevation of the business. In 1870 he was elected a member of the Pennsylvania Horticultural Society and was always an earnest worker and contributor to its exhibi-

tions. For three years he held the office of treasurer and his resignation, on account of other pressing duties, was accepted with regret. He was a member of the Society of American Florists from the beginning. Since the organization of the Florists' Club he was its treasurer until last fall, when, on account of his failing health, he was obliged to resign. His opinions and valued counsel were of great benefit, and his "Go slow boys," when an unusual draft on the treasury was talked about saved the club many a dollar. As a business man he was very energetic. He believed in doing everything well, and nothing in plants or flowers was too good to carry in stock. His disposition was most kindly and many a brother in the business was afforded flowers from his stock which it would have been impossible for him to get elsewhere. Mr. Cartledge had a kind word for everybody and none came to him in distress that he did not do all he could to help them in their trouble. He was a prominent Mason and a member of the Independent Order of Odd Fellows.

#### The Outlook at Omaha.

Omaha is waking up. Hard times and depreciation in values have brought discouragement and hesitancy during the past three years, but all signs point to immediate prosperity now. It took determination and grit to plan and carry out the scheme for the great Trans-Mississippi Exposition which is soon to be opened to the world under the most favorable auspices, and any one who has the privilege of viewing those magnificent buildings with their stately architecture and artistic surroundings cannot fail to be deeply impressed with the enterprize that has made them possible. The buildings are well nigh completed, and already large consignments of exhibits are being received preparatory to their arrangement in their respective departments. While not so extensive as the World's Columbian Exposition at Chicago in 1893, the buildings and grounds are a city in themselves and are as big as any one will want to see, and all the attractive features of the great Chicago spectacle, including Moorish palaces, harems and Midway Plaisance for the frivolously inclined, will be fully reproduced. Under Mr. Ulrich's energetic management trees and large plantations of shrubs and hardy flowers have been set out, and the view from the bluff on which the exposition is located over the Missouri valley and across the fertile Iowa prairie is most impressive. The only foundation for uneasiness lies in the vagaries of the Missouri river, which, without previous warning occasionally takes a notion to change its course and cut off a few thousand acres, more or less, from Iowa and annex them to Missouri, and vice versa. What a catastrophe it would be if the river should annex the great exposition to the prohibition state some dark night on or about June 1, or, still worse, just as the S. A. E. special trans-continental train is pulling in to the Union station on the morning of August 16.

There is an army of men at work in and about the exposition buildings, but there is plenty of activity elsewhere. A new railroad station and a new postoffice are already accomplished facts, and there is plenty of construction going on preparatory to the accommodation and comfort of the crowds of visitors expected. Altogether the city is attractive and homelike. The exposition buildings are about two miles from the Union station,



HORTICULTURAL BUILDING, TRANS-MISSISSIPPI EXPOSITION, OMAHA.

The intervening territory includes the County Court House, a stately building, which is set on a hill and consequently cannot be hid, the Linger Art Gallery, a grand private collection of rare and valuable works of art, generously opened to the public by its owner, Mr. Geo. W. Linger; the First Congregational church, where the S. A. F. convention of 1898 is to be held, and the stores of a number of Omaha's prosperous florists. Among the latter is the establishment of the kindly vice-president of the S. A. F., Mr. A. Donaghue, from which, however, he has now retired in favor of Mr. A. Donaghue, Jr. Not far away is the headquarters of Hess & Swoboda, where Mr. Jacob Hess presides and finds a market for the plants and flowers sent in by Mr. Swoboda from the greenhouses out of town. Mr. Hess is a gentleman of never failing resource and is sure to come out on top every time, even if he were not the treasurer of the Nebraska and Iowa Florists' Club. To a lady customer who had deserted him for another he is said to have sent a bunch of flowers accompanied by a sheet of music entitled "Old Love Lingers Still." The customer came back! Then there are Lewis Henderson, smiling and courteous, B. Haas, whom everybody likes, Aug. Peterson, who runs two establishments, the Nebraska Seed Company in charge of Mr. R. Engelmann and L. A. Stewart, opposite the postoffice, where a vase of handsome Safrano roses recalls the old times. All are enthusiastic and hopeful regarding the approaching visit of their fellow craftsmen and are prepared, with the invaluable assistance of "Cactus Davey," Secretary Erling and other distinguished gentlemen, to do all in their power to make the convention a memorable one.

A visit to the greenhouses "out of town" is much like a visit to similar establishments elsewhere. On the way, one is impressed with the fertility of the soil, which is black and rich as a compost heap, to an unknown depth, as attested by the big dandelions two feet in diam-

eter that lie thick by the road side. A lilac and almond bordered path leads up to Mr. Donaghue's greenhouses, where may be seen American Beauties and Bridesmaids in wonderful luxuriance, fine houses of roses for summer blooming, and asters, sweet peas, carnations, gladioli, etc., in profusion. Just beyond is Mr. Swoboda's headquarters, where Perle and Niphotos seem to revel and where the inevitable preparations are being made to tear down an old house and put up a new one. Mr. Swoboda is a philosopher. His comment after a hail storm had riddled his houses as contained in an official report to his partner was, "It hailed," and then he smiled quietly.

Across the river is Council Bluffs. This city is said to be twenty-five years older than Omaha. Its presiding genius is J. F. Wilcox. Mr. Wilcox is the busiest man and has the biggest range of glass west of Chicago. Five establishments he runs, including acres of rose houses, acres of vegetable forcing houses and vast tracts of vineyard and fruit farms, besides a fine flower store in the city proper. Five houses, each 34x120, was the extent of his building last year, and an addition of equal area is contemplated this season. Roses, carnations, violets and miscellaneous plants are the crops and they are richly fed by liquid manure supplied from tanks constructed on the top of the hill in the rear of the houses. Mr. Wilcox began business a few years ago with a little cottage and 100 sash; at the present rate of progress he will own half the state before he turns grey. His former partner, L. A. Casper, is now an alderman. McPherson & Frey, formerly McPherson & Reed, report spring business good in plants.

The great attraction of Council Bluffs is Fairmount Park, which has wonderful natural advantages as a place of public recreation. The view from the high oak covered bluffs is grand and well worth a long trip to see. The visitors, next summer, will find it an attraction second only to the Trans-Mississippi Exposition.

Preparations for the convention go on rapidly and the local fraternity are fully equipped to give a good account of themselves on that occasion. Visitors will not regret the trip to the hospitable city of the great west. Very low railroad rates are likely to be granted within a short time, and both President Gude and Secretary Stewart assured the writer, on their recent visit, that the indications all point to a large gathering in August.

Omaha.

E. T.

#### Notes and Comments.

Now for a navy blue chrysanthemum, and let its name be Admiral Dewey.

Whether "E. L." is a stockholder in the American Florist Company or not makes no difference. The promoters of the opposition must have thought he was a stockholder, for stock was offered to "E. L." in the rival paper, and he has had occasion to be thankful many times since for having refused. We are all entitled to indulge in a preference, and my preference is for the AMERICAN FLORIST, for the good and sufficient reason that I believe it to be the better trade paper, not only as an advertising medium but in every other way.

One of our leading department stores has been advertising "Cuban Lilies" for sale, and they are described as "big bulbs which are said to increase in size and vigor each year. Each throws up one or two spikes with eight to a dozen large blooms—white with stripes of crimson violet. Sweet scented." What are they? A day or two after the above appeared in the advertising columns of one of our daily newspapers an item in the reading columns of one of them was as follows: "What once was dubbed a Chinese lily is now selling well under its title of Cuban lily." It cannot be possible from the advertised description of the Cuban lily that it is what is commonly known as the Chinese sacred lily. That, of course, is a narcissus. I do not know of any of the narcissi having "flowers white with

stripes of crimson violet." I have not had an opportunity of seeing the bulbs, but have been advised that the Cuban lily may be a crinum.

I am having some fun with fuchsias these days. I have been picking up varieties wherever I could so as to secure as complete a collection as possible. According to their manner of growth and habit, there is serious mixture among them. There is one variety under three different names, Fancy, Purple Prince and General Roberts. I received it some years ago under the latter name from E. G. Hill & Co., and I believe this to be the correct name. Elm City I mentioned as not being true to name a few weeks ago. One lot received under the name of Arabella—good old Arabella—is proving to be Rosam's Patrie. Octavie Feuillet and Paul Deralade appear to be alike, and Celine Montaland and Buffon are apparently identical. One good old sort I feel sure is true to name, and that is Avalanche (Henderson's). There were two distinct varieties under this name sent out the same year, sometime in the sixties, if my memory serves me correctly. Henderson's Avalanche had yellow foliage and double purple corolla. It was referred to occasionally as double Wave of Life. The latter variety also had foliage with a decided yellow cast, but as above indicated the corolla was single. The other Avalanche was raised and disseminated by a Mr. Smith—George, I believe. This one had a double white corolla; the varieties producing that color of double flower were not by any means so plentiful at that time as they are to-day. What has become of all the varieties of fuchsias with single white corollas? Not one have I noticed described in any catalogue that has come under my notice for some years. Personally, I prefer the single flowering varieties among fuchsias, especially in the class with white corollas. The plants make a more graceful appearance, and I believe bloom more freely.

The ranks of the florists are becoming more or less depleted by some of the patriots joining the United States army. Two of Peter Vanderveur's sons suddenly decided to enlist a few evenings ago, and after successfully undergoing the necessary preliminaries started for Mt. Gretna on Tuesday, May 10. Peter Vanderveur is well known about New York, having been largely interested some years ago in the growing and disposal of hardy plants, roses, clematis, etc., grown in Boskoop, Holland, and offered for sale at the auction rooms of the old firm of Young & Elliott. He is now the propagator at the Andorra Nurseries, which are located in the extreme northwest corner of Philadelphia, at the head of the beautiful and romantic Wissahickon drive, Fairmount Park. His sons, William and John, were, until they decided to go to the front, employed in the greenhouses of Edwin Lonsdale. John, who is under 20 years of age, has worked therein over a year. William is about 22, and has been engaged for four years or more. He took a great interest in everything he had under his care, and was especially fond of orchids. His mind will often revert, in the intervals when not banging away at the Spaniards, to the more peaceful occupation of raising seedling cypripediums, and he will turn an anxious thought occasionally towards the little baby orchids he left behind, and be solicitous as to their welfare during his absence. He took an interest also in crossing the different varieties of crotons, and quite a batch of seedlings in the various stages of development is the result. When the Spaniards are thoroughly

well satisfied—and I trust it will be quite soon—it is to be hoped he will return safe and sound and take up the more congenial occupation of horticulture, and with the steady application which he has shown during the past few years he should continue a useful citizen and a credit to the profession. E. L.

#### The Carnation Fairy Ring Fungus.

Second only to the carnation rust is the damage done by the fungus that causes circular spots upon the leaves of the carnations. The disease often shows itself upon the younger leaves and almost anywhere from base to tip, the round spots varying from a mere speck to one whose diameter is as wide as the leaf. The writer has seen plants with every leaf almost entirely occupied with the spots,



FAIRY RING FUNGUS OF CARNATIONS.

and then, of course, growth ceases and the crop of fungus spores is enormous.

At first the spot is of a pale color, covered with a gray mold, changing to a brown as time goes on. The fungus is one well known to science and bears the long name of *Heterosporium cehinulatum* Berk. It gains entrance by the spores germinating upon the surface of the leaf and sending their absorbing thread into the growing tissue below. After vegetating for a while, the fungus develops filaments that extend out through the stomates and bear the spores. It is this exterior growth of threads, and the spores they produce, that gives the motty appearance to the afflicted spots.

From the manner in which the spores are produced it is seen that anything that will carry the spores will assist in the spread of the trouble. When dry, the dust-like spores may be carried by the wind and when wet they flow along with the water that may be driven upon or between the leaves of the plant by the hose when watering the house.

As a precaution it may be suggested that all leaves showing the fairy rings be picked off and burned, and if certain points are badly infested these may be removed bodily from the bed. In watering,

avoid as much as possible the wetting of the foliage, and should the grower wish to use a fungicide the sulphide of potassium may be used, one ounce to ten gallons of water. This fungicide is cheap, about fifteen cents a pound, readily soluble and harmless to the plants. It can be dissolved, a pound in a half gallon of water, and a fraction of this placed in the spraying pump with the required amount of water to make the weak solution. The potash is a food element, and when it reaches the soil may be taken up by the plant as such. The same mixture has proved an excellent remedy for the leaf spot; and is also a standard remedy in the open for such troublesome diseases as the mildew of the gooseberry.

BYRON D. HALSTED.

#### Carnations.

If they have not been made before, now is the time to make your plans for next season unless your stock has done remarkably well the season just past, then it is better to let well enough alone, excepting to experiment in a small way and endeavor to produce better stock, more of it, and at a reduced outlay. Cost is quite an item now in the growing of carnations, for even if some growers do get \$8 and \$10 per 100 for their stock, the bulk of them will not get that, although their stock may be just as good and they will have to try and turn out first-class stock at a lower rate of production or expect to lose money by growing carnations.

The question of solid beds or benches demands serious consideration in connection with the cost of growing carnations. With me and my soil I can get far better results from all varieties planted in solid beds over the same varieties grown on benches. There are no doubt many growers who could get the same results but in making the change do not do so over the whole of your place at once or you may rue your bargain; it is far better to try one house the first year or even part of a house, but be sure that it is a good house or the experiment will not be a true one. The advantages of solid beds over benches are many, the greatest being in the fact that you are not rotting out a lot of expensive lumber all the time; another is that the time consumed in watering is not nearly so much, and with these two items of outlay taken off you have already considerably reduced your expense account. It is a recognized fact that watering carnations is a thing that must be done with great care not to wet the foliage, and with solid beds you need not water oftener than twice a month; then it can be done on a good bright day and the evil effects of watering over the plants reduced to a minimum. Last but not least is the fact that your stock will be far healthier growing in solid beds.

A house of Flora Hill grown the past winter will perhaps be the best argument I can make in favor of solid beds. The house was 22x150, a three-quarter span with the long side to the south. Under the south gutter was a path two feet wide, then a solid bed four feet wide, an eighteen inch path and another solid bed the same width, then a two foot path and a bench on the north side. The house was planted about August 20, the whole house at the same time with plants that did not vary in size a half inch over the whole house. It started without any seeming check and the first flowers were gathered about October 1, the heat being put on the same date. The temperature was kept to about 60° at

night and 70° to 80° during the day. The bench and the solid beds were given about the same treatment excepting that the bench required at least five times as many waterings as did the solid beds.

The points in favor of the solid beds was first of all a decided difference in the health of the plants, those on the solid beds growing much stronger and healthier than those on the bench. Another very decided difference was in the size of the flowers, those on the solid beds being at least one-third larger than those on the bench. The difference that counted most was that the solid beds turned out fully twice the same number of flowers per square foot over those on the bench. There were of course some objections to the solid beds, and the greatest of these was that the stems growing such large flowers were not quite strong enough to hold them erect and they had to be tied up very carefully to get them straight. Another objection was that about ten per cent. of the flowers on the solid beds bursted their calyx while those on the benches did not burst at all, and about the middle of January the house was allowed to get too cold with the result that about fifty per cent. of the flowers came bursted for something like six weeks. This could have been avoided by proper regulation of the temperature. The flowers on the bench were not affected to any extent and this is one thing in its favor.

Taking the smaller per centage of flowers cut from the bench, the extra amount of time consumed in watering and the wear and tear on the bench, the difference in the cost of the flowers to me was considerably in favor of the solid bed system. Some growers claim that the plants do not bloom as early in solid beds nor as well and that they get the bulk of the flowers only in the spring when they are cheap. With me it is just the opposite. I get the bulk of my flowers at Christmas and Easter by a little manipulation in the growing, and cut more between those dates, beginning October 1, from the solid beds than I can from benches. Unless I make a special effort to have them run later, they are about over and ready to pull out after Decoration Day, thus getting my crop into the regular season as good as any bench grower possibly can. These differences, however, may not be so great in other soils and may even be reversed in some; but after you have learned to handle your stock so as to get the best results from the solid beds, you will be astonished at the advantages they offer.

ALBERT M. HERR.

#### Fuchsia Gracieux.

The fuchsia heading this note has been referred to in your columns quite recently. It is the most showy little fuchsia I ever remember to have seen, and it is an early bloomer. It can readily be brought into bloom, so as to attract attention, in a greenhouse by the middle of April. To have large plants, which might on occasion be desirable, it would be well to root a few strong shapely cuttings in the fall and bring them along slowly in a temperature of about 55° at night, and never allow them to become pot-bound or crowded; they should make very showy plants either for sale or exhibition purposes.

Mr. Ansel T. Simmons gives a little history in connection with the re-naming of this variety, which is mighty interesting reading (See AMERICAN FLORIST, Vol. XIII., No. 512, p. 967). This is a question for the nomenclature committee to act upon. E. L.

#### Helpful Reminders.

Bamboos are now starting nicely. Do not allow them to become starved before August. Keep them well fed and watered for there is nothing prettier than a well-grown bamboo, yet you are very apt to become discouraged the first season of your experience with them.

Note the curling of the leaves as you go through your houses. It is a sign of warning for you, and is usually followed by red spider, and hard times generally set in. This point does not apply to any one class of plants, but to almost everything

least of two evils. Fuchsias should be in their prime, but they will be attacked by spider almost as quickly as mildew takes hold of roses. Coleus attracts mealy bugs if kept too hot and dry and much good stock is ruined at this time of year.

It is not yet safe, in most localities, to set out asters, but if you have sown the best seed, it pays to transplant them into pots or flats. If you have the room, a bench of them inside is good. Choice asters are desirable.

Dahlias that were set out apart and potted have grown considerably and it



FUCHSIA GRACIEUX.

but cacti, and varies according to the style of houses, stock which is carried and amount of care bestowed. Just now, when heat is on the increase, is when danger of neglect is at hand. The tendency to curl is a provision of nature to prevent rapid evaporation and indicates a shortage of moisture. After this continues for any length of time, the plant becomes weakened and insects attack it. The insect is almost always charged with the destruction of the plant, but it is bad management which creates the situation favorable to the insect, red spider and mealy bug in particular. Where you cannot keep your stock moist enough at the root, shade it. While many arguments against shade are well founded, it is the

pays to give them a shift now. Give them plenty of room and they will make strong plants and be as far along at planting time as cannas, which is unusual but sensible. There is a prejudice against dahlias because they are so late in flowering but if grown properly they will be much earlier.

Cannas are now starting strong bud stalks. Don't allow them to wilt or become starved. If you cannot shift them, sprinkle earth and manure between the pots. They will root through and you should break the pots when setting out. This is for particular work. You cannot afford to have plants checked just as marketing season is at hand.

Your cobaea vines must be staked now

or they will be in a tangle. A second batch of nasturtium seed should go in now. Try and have a few of each variety of perennials in pots now to accommodate late orders. It does not do to shift them later in the season, besides there is nothing like pot grown stock to thrive when planted out. C. B. W.

#### The Dwarf Phloxes.

Just now and for a while to come, these beautiful free flowering species and varieties are deservedly admired by all who are fortunate enough to get a chance to examine a collection of them planted together, but we rarely see them in sufficient numbers and variety to give us a clear idea of the effects that might be produced with this simple material in the spring months. As a rule we only find two or three varieties of *P. setacea* or *P. subulata* in ordinary collections. These are rightly considered indispensable in the border, for they are the earliest of all, being about a week ahead of the improved varieties in this section, but perhaps not everywhere.

The color and shape of the flowers represented in the later introductions are far superior to the typical white or pinkish sorts. *P. subulata*, The Bride, only a few days later than the original variety, is white with a distinct dark purplish eye and retains the same free spreading growth and the blooming qualities of the parent. *P. subulata Nelsonii* is a great improvement on the old white, very distinct in growth, the foliage, except when in a young state, being stiff, almost spiny as in *P. aristata*, and the plant much shorter and very compact. The pure white flowers are rounder, the petals touching or even overlapping each other.

The same growth and dense habit is noticed in the superb *P. subulata Vivid*, which surpasses all others in brightness of color; both last named varieties are remarkably free bloomers and produce a wealth of flowers, covering the entire growth for several weeks. Being only a few inches high and carpeting the ground completely, they are well adapted for groundwork under the taller flowering plants that bloom later, especially when the latter are of such kinds as are slow and late in starting into growth, as the *bocconia*, *inula*, *hibiscus*, *cassia*, *dielium*, *gillenia*, etc.

*P. pilosa* grows somewhat stronger and higher than the foregoing, still it is a trailing species recommendable in every way. *P. amona* deserves special mention, for it is in bloom in May and June and frequently gives us quite a display of its deep pink blossoms in the fall, especially on young stock in well enriched soil where the roots and tops can roam at will and are not hemmed in by neighboring grass feeding plants.

This fall blooming habit has shown itself regularly with us for the last ten years or more. Some seasons the plants were quite attractive late in the year, the flowers being evenly spread over the patch, but not to be compared with the bright effects of the masses of spring bloom, at other times the conditions for a full crop of flowers were less favorable and the buds appeared more sparingly. It is not so dwarf and low as *P. subulata* and its varieties, but grows dense and compact at all times. When young or recently planted, eight inches is its extreme height for the first season, but after that it may grow twelve to fifteen inches high according to soil and conditions. A waxy pot plant for spring sales it proved very satisfactory, being neat, clean, com-

compact and very floriferous. *P. subulata Vivid* and *P. subulata Nelsonii* can also be recommended for this purpose.

*P. ovata*, with deep reddish purple flowers, the stems not over twelve inches high generally, the foliage oblong and rather thick, is a pretty species and should find a place among our spring flowers. *P. reptans* is another low creeping kind very desirable in every respect. In spring it sends up slender little stems crowned by a cluster of very neat deep purplish red flowers, which continue to come out in succession until the dry summer heat spoils them for the season. *P. divaricata* is the tallest among those mentioned here, attaining a height of from ten to fifteen inches. It does not begin to bloom until the second week in May with us, but it is a most elegant species for the garden, no other phlox possessing its charming and unique shade of lavender blue. The flowers are large in size and produced in many-flowered clusters, many of which often spring from the same main stem. There are several lighter and darker shades of blue represented, one being almost white with only a faint tinge of lilac; all are surprisingly beautiful and last for a long time in perfection.

The flowering season of any or all of these phloxes may be prolonged considerably when we select the most suitable situation for them. On the south side of a building, wall or fence, or on sloping ground with a southern aspect and fully exposed to the action of the sun, we cannot reasonably expect the individual flower to be long lived, while it is really astonishing how much their lasting qualities are improved in an eastern or northern exposure or under the slight shade of tall shrubs or trees. J. B. KELLER.

#### A Drummer's Twaddle.

Past Niagara, over the borders into the Dominion, whirling along the edges of the Hamilton hills, past the rich flats extending away to Ontario's waters, we came to beautiful Toronto, on the bay, with its funny looking "bobbies," with their helmets strapped below their chins, with their leather stocks and erect and pompous bearing; with its street car conductors who collect their fares with a pitcher-shaped receptacle, into which the passenger drops his nickel, the collector passing through obsequiously as if taking up a church collection and when through, depositing his box at the end of the car with a solemnity most impressive and regardless of thieves who, in any other place but Canada, would almost surely break through and steal.

Remembering the success of the S. A. F. convention held there some years ago, when we were so finely entertained, we doff our hat to Toronto and its florists, and gladly record another pleasant visit.

Canadian florists must be prosperous judging from the appearance of their greenhouses, their busy movements, and the presence of many customers thronging their beautiful stores on King street. We found John H. Dunlop building two new greenhouses, 20x100 feet each, as an addition to his already large plant, this increased room being required for more roses and carnations. Tidy & Sons' tidy place showed evidence of good patronage, and this courteous firm kindly gave us good welcome. Wm. Jay & Son were crowded with orders for spring stock, and, assisted with business prospects, Grainger Bros., with their triple line as florists, nurserymen and seedsmen, were well occupied. Jolly Tom McKerighan, who believes that "a good laugh is worth

a hundred groans in any market," has started a new plant on the Davenport road to better supply his down town store. Veteran Geo. Plumb, at his pleasant location at Davisville, vies enterprisingly with the younger florists, and has lost no zest for his lifetime business.

Running out to Brampton, we found H. Dale putting up two houses, 20x600 feet. These, added to his former 125,000 square feet of glass, makes his the largest establishment in Canada. Mr. Dale was busy handling 10,000 young, low-grafted Bridesmaid and other roses, which he intends for forcing the coming winter. Mr. Dale told us that this was his second season of handling roses in this way. That it induces better and longer growth of stem and freer blooming, and as affording further evidence of what he thought of this method, stated that his first experiment was with 500 plants; his present stock so treated is 10,000, and that he will prepare 20,000 next season. He loses only five per cent. of plants so treated, and says that since he has acquired "the know how" he looked in future for a nominal loss of one per cent. of plants so grafted.

R. Jennings was also adding a new 18x100 feet house to his former good plant. At Hamilton, friendly Thos. V. Kilvington reported excellent business all winter, and a good prospect for spring trade. E. G. Brown, at his neat and well-kept establishment, confirmed the other good reports of generally successful business, and was well stocked with staple spring stock, waiting balmier conditions only to move for outdoor planting. Webster Bros. were in the midst of active operations digging and delivering nursery stock, and at the same time making plantations of hardy stock in their grounds on Wentworth street. On our return trip to the States, we met with Mr. B. O. Bartlett, who has recently retired from the drummer's ranks to engage in the florist business at Jamestown, N. Y., having recently purchased the A. L. Thrall greenhouses there.

Mr. Bartlett formerly represented the Winchester Arms Co., and is one of the most expert shots in the world, one of his exhibition feats consisting of throwing six balls into the air at the same time and hitting each one before it falls to the ground. We welcome him to the craft, and hope he will make as successful a hit in it as he did in his former business.

EDDY.

#### New York.

WHOLESALE REPORT BUSINESS DULL.—  
OUT DOOR FLOWERS COMING IN FREELY.  
—RETAILERS FIND DEMAND FAIR.—  
STEAMER TRADE BEGINNING.—SALE OF  
POLYKRANAS' EFFECTS.—DEATH OF JOHN  
HART

Rainy weather has prevailed throughout almost the entire week, retarding the spring plant trade badly and having a dispiriting effect on the cut flower business at the greenhouse end and the store end, too. Wholesalers find the demand very light, orders being infrequent and for small amounts. Out door flowers such as lilacs, lute tulips and parrot tulips, Poet's narcissus, hly of the valley, etc., are coming in heavily and almost crowd the legitimate greenhouse product out of sight. Lilacs come in by the barrel, the price being \$2 to \$3 per barrel. This applies to the purple kind only, white being none too plenty and its adaptability for use in association with choice flowers giving it a special value enjoyed by but few outdoor products.

Violets are about at an end. For nice



corsage work sweet peas or moss roses take their place effectively and are worn very generally. Moss roses from some growers are extra good. Others grow the poorer varieties; why, it is hard to say, for they cost about as much at the outset and take as much room and care as do the more desirable sorts. Of Jacq. roses but few are seen and the outdoor cut will soon be in view. Meteor, Bride and Bridesmaid are on deck in unwieldy quantity and deteriorating quality. American Beauty is in the same condition, but to a less degree. Carnations are also in overstock for the very light demand. Smilax and ferns are moving slowly at low figures.

The retailers give varying reports as to present conditions. Some admit that business is unexpectedly dull with them, while others profess entire satisfaction. Steamer work has begun in earnest this week and is not apparently much reduced in volume as compared with the corresponding date in previous years although the impression has been given in some quarters that steamer work would not amount to anything on account of the war. There are no large decorations this season; the Mackey wedding which took place on Tuesday, the 17th inst., was heralded as something extraordinary, but it proved to be a very modest affair in all its appointments and the quantity of flowers used was not sufficient to make even a ripple on the surface of the market.

The contents of the Polykranas store which was seized by the sheriff for the benefit of McDonald & McManus were sold at auction last Wednesday, bringing in the aggregate about \$175 with which to satisfy an account of about \$133.

John Hart, eldest son of James Hart, and well known among the wholesale and retail trade, died on Wednesday, May 11, of pneumonia, aged 28 years. The funeral was attended by a number of his late associates. He left a wife and two children.

Mr. C. S. Loder, of the Florists' Board of Trade, has been asked to serve as a director in the Merchants' Association.

Visiting New York: J. W. E. Ebbinge, manager of the Horticultural Co., Boskoop, Holland.

#### Philadelphia.

FLAG DAY AT DREER'S NURSERIES.—MUSIC, SPEECHES, LUNCH AND PATRIOTISM.—BUSINESS CONDITIONS.—THE MONTHLY EXHIBITION.

Last Saturday was a gala day at Dreer's nursery in Riverton, New Jersey. All the employes of the city store, at 714 Chestnut street, were present, with a few invited guests, and took part in the proceedings. The special event was the raising and unfurling to the breezes of a flag 12x25 feet. This beautiful specimen of Old Glory was purchased by the employes, the pole sixty feet in height being provided by Mr. Dreer. Miss Bertha Eisele, daughter of Mr. Jacob Eisele, pulled the cord which released the captive banner at the mast head, releasing hundreds of small flags which came fluttering down as the folds of the large flag caught the breeze.

Wm. F. Dreer made a short patriotic address and was followed by Nicholas Brookner. Rev. Fred Owen also spoke in words befitting the occasion. The band of music present played time honored selections and the very air seemed full of patriotism. A fine lunch was provided, to which all did justice. Darkness coming on put an end to the festivities which, no doubt, did much to arouse fresh en-

thusiasm and love of country in the hearts of those present.

Business is very light, it being a long time between customers in the stores these days. The bad weather may have something to do with it, as it has rained one day and poured the next for a week past. Today (the 17th) is beautiful, and perhaps there are more like it to follow; in that event things may become a little better. Prices are about the same as last week except that bargain lots seem to be more plentiful.

The monthly meeting of the Pennsylvania Horticultural Society on May 17, was of unusual interest on account of the orchids exhibited. Conspicuous among these were a specimen of *Laelia purpurata* var. *Mandiana* from the collection of C. G. Roebing, of Trenton, N. J., which was awarded a silver medal, and a plant of *Laelia purpurata* var. *Orange* from the collection of Wm. Albert Manda, of South Orange, N. J., a magnificent specimen with nine spikes and 34 flowers in a state of excellent cultivation which was also awarded a silver medal for rarity and a certificate of merit for excellence of cultivation. There were some good plants of *Calceolarias* on exhibition which showed careful culture and were favorably commented upon by the judges, as were also the cauliflowers, tomatoes, lettuce and other vegetables shown in competition for the Michell and Dreer premiums. The meeting was fairly well attended although the amateur element was conspicuous by its absence. Mr. Thilow, Mr. Michell and others made suggestions as to how the amateur might be interested in the monthly meetings and some fruits are expected in the near future from this interesting discussion. K.

#### Boston.

A GLUT IN THE MARKET CAUSES PRICES TO FALL, CARNATIONS GOING DOWN WITH A THUD.—CERTIFICATE FOR FARQUHAR'S NEW NARCISSUS.—WANTED: A HORTICULTURAL BUILDING.

The cut flower market has been characterized this week by a glut in which unusually heavy production and very light sales have combined to reduce prices in almost all lines, the heaviest fall, however, being in the carnation market, where prices have gone down fully one-half. Roses are very nearly as bad, and bulbous stock is disposed of with difficulty, being unsalable except at very low prices, and much of this class of merchandise remains in the hands of the wholesalers.

Violets are about at an end with the exception of the hardy dark variety known as the Cape violet, which comes in large quantities for a couple of weeks at this season of the year. Lilies are the single item which shows improvement, \$8 per 100 being the price for good stock. There is a prospect for a considerable advance as Memorial Day approaches, as the records of previous years seem apt to be eclipsed by the general observance of the day in which present belligerent conditions will result this year. Everything indicates a bountiful supply of carnations for memorial decorations.

At the exhibition by the Florists' Club, given last Saturday, R. & J. Farquhar & Co. displayed blooms of the new narcissus *Victoria*, for which a certificate of merit was awarded. Robert Laurie exhibited his ever-blooming *chrysanthemum Independence*, which was much admired, and the usual bright display of seasonable flowers was made by James Comley and several others.

The Massachusetts Horticultural Society has caused to be circulated a petition to the mayor and city council representing that it is highly desirable that a building appropriate for horticultural and floral displays be erected on the public garden, or other accessible site belonging to the municipality, in which large exhibitions may be held with great benefit to the public. All local floriculturists, be they amateur or commercial, will unite in urging favorable action on the petition.

The number and brilliance of the tulips in the public gardens exceeds that of any previous spring, and the display attracts great attention and universal admiration.

Visiting Boston: S. S. Skidelsky, Philadelphia.

#### Chicago.

TRADE CONTINUES VERY DULL.—THE MARKET OVERSTOCKED.—AMERICAN BEAUTIES WERE NEVER SO PLENTIFUL AS NOW.—NOTES AND COMMENTS.

The condition of trade remains about the same as last week, extreme dullness prevailing in all branches of the florist business. The cold weather we have experienced for the past three weeks has retarded the sale of bedding plants, and very little has been done in this line. Retail trade in cut flowers has settled down to the usual summer inactivity. There are very few weddings or social events where floral decorations are used, and the shipping trade is very quiet, though many flowers are being shipped out of the city in job lots, often at prices which bring very small returns to the grower. There is a glut of carnations but most of the stock is of inferior quality and extra good carnations are not plentiful.

Roses are considerably reduced in quantity but greatly exceed the demand. Extra long stemmed American Beauties were never so plentiful as they have been this spring. First class flowers on stems from fifteen to twenty inches long are in good demand and bring about the same price as the same grade of flowers on stems from thirty to forty inches long. Extra fine Parrot tulips are in the market, but find slow sale at from \$2 to \$4 per 100. Paeonies are now quite plentiful and help materially to depress the prices of roses and carnations.

There will be a large stock of flowers in the market Memorial Day week.

Prices will be about as follows: Beauties from \$1 to \$3 per dozen; common roses, from \$4 to \$6; carnations, from \$1 for common to \$4 for fancy; paeonies will be in good supply at from \$3 to \$6 per 100. There will be narcissus *Poeticus*, tulips and many other cut flowers in abundance.

J. Mangle has a window at his store at State and Washington streets beautifully decorated with Cape jasmine flowers, which attract much attention.

J. A. Budlong, the latest addition to the ranks of Chicago's wholesale florists, has his place at 37 Randolph street fitted up in first-class shape and reports business good. He is well pleased with the change.

J. Austin Shaw, salesman for Siebrecht & Son, exhibited a fine sample collection of small palms and ferns this week at Vaughan McKellar & Winterson's.

There are two new florists' stores in town, John Michel having opened at 871 Lincoln avenue and the Standard Floral Company at 2961 Wentworth avenue.

Emil Buettner, of Park Ridge, suffered a loss of about 750 feet of glass by hail Wednesday night. He was insured.

E. H. Hunt, who has been ill for several weeks has so far recovered as to be again attending to business.

A. L. Randall returned Monday from a two weeks' sojourn at West Baden, Ind.

Visitors in town: Geo. B. Moulder, of Smith's Grove, Ky., enroute to Onaha; E. Miller, of Polo, Ills., was in the city Thursday and reported business quiet; Fred Holton, of the Holton & Hunkel Co., Milwaukee, returned home Friday after spending most of the week among the Chicago growers.

#### Cincinnati.

TRADE CONDITIONS.—THE FLORIST SOCIETY'S BEST MONTHLY EXHIBIT.—THE CLUB MEETING.—BANQUET NIGHT IS CHOSEN.

Business shows very little improvement, the only changed condition seeming to be a slight shortening of supply in all lines of cut flowers. Outdoor bulbous stock is nearly exhausted; carnations are coming in faster, but good ones are getting rather scarce. Roses of No. 1 grade sell readily while poorer stock moves very slowly. Plant trade is now at its height and all of the dealers will be kept busy until Memorial Day.

The monthly show of the Cincinnati Florists' Society, held on May 14, was noted for the excellence, if not for the extent, of the exhibits. The City Greenhouses occupied the north side of the hall with a fine display. In their collection were several fine plants of *calceolarias* in all their rich and varied colors. Some well grown specimen ferns with a group of orchids made an excellent display, notable in which were *Cattleya Sandersoniana*, *C. caudatum*, *Odontoglossum citrosimum* and *Cypripedium Lawrenceanum*. The firm had 100 entries and received sixty-two points.

A. Sunderbruch's Sons exhibited a bench thirty feet long filled with choice plants interspersed with vases of roses and carnations, and also showed some splendid decorative plants, such as *Pandanus Veitchii*, large specimen plants of *Kentias arceas*, *Dracena fragrans* and *araucarias*. The Sunderbruch collection received sixty-one points and attracted great attention. Of course the orchids were much admired by the fair sex. Theo. Bock, our judge, said during the evening: "Never before has the competition been so sharp as to-day. This was the best exhibition we've ever had." In the evening the regular club meeting was held, with a small attendance. H. Wellman, was elected a member. Pres. Witterstaetter was authorized to secure suitable medals for prizes. May 25 was selected as the date for the annual banquet. Pres. Witterstaetter caused a vote to be taken thanking outside contributors for their generosity during the past year, also thanking Judge Bock for his valuable services. H. SCHWARZ.

#### Paris.

VIOLET PESTS AND DISEASES AND HOW THEY ARE TREATED IN FRANCE.—SOME INTERESTING EXHIBITS AT LATE MEETINGS OF THE HORTICULTURAL SOCIETY.

In my last letter I have given the leading points in violet culture as practiced in the south of France and shown that their cultivation is profitable enough when conducted in the right way. From what I have said your readers must not infer that it is all gold that glitters, and that the cultivation of the violet has on our side, none of the drawbacks it suffers in your country. Among the great

est troubles our violet growers have to contend with is the fungus called *Phyllosticta viola* and the insect pest which we call "tetranychus," (probably *Tetranychus telarius*, or red spider).

The *phyllosticta* appears upon the foliage in a small white spot surrounded by a black line which widens rapidly and dries up in the center. It often happens that the affected tissues are destroyed entirely and give rise to round holes of different sizes which seem to have been made with a punch. These holes in getting larger join and destroy the substance of the leaf wholly or in part. The small black points which are often noticed on the dried parts or on the edges of the circular holes are the reproductive spores of the fungus. There is a second form of the mischief, not quite so frequent as the above, in which the tissues become yellow and dry, but do not disappear. Under the influence of special meteorological circumstances the *Phyllosticta viola* spreads very rapidly and destroys the leaves wholesale in a fortnight. To keep the plants free from the disease, Mr. Belle, professor of agriculture, recommends to try the copper solutions which in his opinion ought to be the more effective as they are used as a preventive.

The *tetranychus* which attacks the violets is the same which infests nearly all our cultivated plants. By their numerous stings these insects kill the foliage but do not destroy the plants, which after some time produce new leaves for which the same fate is reserved. The plants are of course much weakened through the collapse of the leaves and as the flowers cannot develop in consequence, the crop is nil. It is in spring and in the fall that the pests are most active and their depredations greatest. During winter life in plants is suspended and new leaves cannot easily replace those that have been destroyed; the result is that the flowering, which with the violet takes place at the start of vegetation, cannot be of any importance on plants that have been deprived of their leaves for a long time.

A large number of experiments carefully conducted with various insecticides by Messrs. Wimmer and Amie have demonstrated that the following treatment gives the most satisfactory results: 1. Mow the plants immediately after their flowering, taking care to collect and burn all the leaves in order to destroy the eggs of the *tetranychus*. 2. Apply one of the following emulsions by means of a watering pot, or better, with a sprayer. First formula: Black hard soap six pounds three ounces, petroleum or kerosene same quantity, water twenty and two-thirds imperial gallons. Second formula: Black hard soap nine pounds, petroleum or kerosene same quantity, water twenty and one-third imperial gallons. Four applications should be made at intervals of four days each. 3. Manure the plants well and cover them, if possible, with dry leaves or tree twigs. A better emulsion of the petroleum would be obtained by adding first a little alcohol to the soap. Prof. Belle in preparing the above notes ventures the hope that they will furnish a basis for future experiment, resulting in a complete check of this troublesome pest.

At the two last meetings of the horticultural society some very fine plants were shown. One of our florists, Mr. Delayer, Paris, exhibited a dozen white, pink and salmon colored carnations which measured five inches in diameter. These flowers are said to have been obtained from seed in the south of France. Another bouquet of the same kind of car-

nation and at least equal in size but darker in color was staged at the meeting of last Thursday under the name of *Le Colosse*. The flowers shown had long stiff stems and notwithstanding their size were self-supporting. The famous white *Souvenir de la Malmaison* no longer stands alone and will soon have fitting companions as regards size and color. If the advance continues at such a pace, we shall soon have carnations rivaling the *chrysanthemums* in size.

Vilmorin-Andrieux & Co. sent in a collection of thirteen varieties of narcissus, among which one of the finest was *N. pseudo narcissus bicolor maxima* resembling the well known *Empress* but with a longer trumpet. The same firm had a splendid collection of dwarf *calceolaria grandiflora hybrida*; fifty-five different alpine plants and a couple of novelties worth mentioning, namely, *Primula obeonica grandiflora*, pure white, making splendid pot plants, and a very dark blue form of *Myosotis alpestris* of very good habit, quite distinct and handsome. A plant which is also very effective and always attracts a good deal of attention is the *Primula cortusoides amœna*, of which some charming pots with large dark violet flowers were shown. Unfortunately the colors of this strain do not come true from seed, but the plants are easily propagated by division of the roots. If color is not of consequence, fine plants may be obtained by sowing the seed under glass in December or January pricking the young plants off into a seed bed until they can be set out in a light fresh soil, in a situation with northern exposure. *Primula cortusoides amœna* is a little tender for the Parisian climate, but when protected with leaves or litter, it sometimes withstands our winters. Of course it is more prudent to pot off the plants in the fall and place them in a heated frame or greenhouse, which treatment insures a good crop of flowers in May. The plant deserves to be more generally grown and mixed seed including the various colors, ranging from pure white to dark violet or carmine red, ought to be easily had from the seedsmen.

From central France was sent in a collection of large flowering *pelargoniums* with a very conspicuous new semi-double pure white sort, not yet named, which secured a first-class certificate and well deserved it. Other plants exhibited were a dwarf bright red canna named *General Boisdette*; a collection of *Cheiranthus Chèiri* (wallflowers) including the fine dwarf canary yellow (green bud) and another new bright yellow color; a plant of *Veltheimia Capensis* in full flower; a pot of the quite distinct, curious leaved *Viola palmata*, with long narrow foliage. This variety however, is not new and has been grown for fifty years as a border plant or a plant for rockeries in pent; a pot of the pure yellow *Viola pubescens*, a native of Canada. The grower, Mr. Millet seems to pay particular attention to Canadian violets just now.

A very interesting collection of sprays of flowering shrubs was also staged, comprising all the different kinds of ribes, prunus, malus, cerasus, cydonia, berberis and some plants of much promise as, *Amelanchier lanceifolia*, with curious white flowers; *Cydonia Japonica atrocinerea plena*; *Malus Niedzweltiana*, with large red flowers, dark foliage and red wood; *Berberis dielyocarpa*, a remarkable sulphur yellow flowering shrub introduced by Mr. Maurice de Vilmorin; *Cydonia tuba grandiflora*.

PARISIAN.

**THE AMERICAN FLORIST**

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wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

TESTS at the New York Experiment Station show that spraying carnations with salt water is of no value in checking rust, and no benefit could be seen in any way from such applications. The application of salt to the soil was found to be decidedly injurious.

M. LEMOINE, of Nancy, France, will send out, soon, several double and semi-double flowered varieties of Begonia semperflorens which he has succeeded in raising. If they retain the vigor of growth and free flowering character of the single varieties they should be very valuable acquisitions.

MR. C. J. STROMBACK, of Lincoln Park, Chicago, states that in some experiments carried on under his supervision it was found that a solution of Kraft's Plant Tonic kills the little brown mite which infests *Harrisii* lily bulbs, and is supposed to be the cause of the trouble which growers have experienced lately with this plant. Poured into the bulb, this remedy, it is claimed, kills the insect in about ten hours, without any danger to the plant.

THE AMERICAN FLORIST has never been given to undignified or misleading editorial attacks. It may, however, with all modesty, invite comparison with any other paper in the trade as to those qualities which appeal to the intelligent reader. In the number and standing of its regular contributors, in the quality and quantity of its reading matter, in the mechanical excellence and pleasing appearance, in the extent of its circulation and in bona fide and paid advertising, in fact, in everything which gives a paper value to its readers, it invites comparison. It stands ready at all times to satisfy any inquirer among its advertisers as to its circulation, which it has often printed and has reason to believe is greater than that of all other papers in this trade combined.

**"The Pruning Book."**

We have received through A. C. McClurg & Company a copy of this addition to the garden-craft series of Prof. L. H. Bailey, published by the Macmillan Company of New York. The book covers the entire subject of pruning, and is especially complete in its treatment of trees and shrubs grown for their fruits. It is a handy volume, written in the professor's best style, the contents well arranged and serviceably illustrated. The "why and wherefore" of many garden operations will be clearer to all after a perusal of its pages.

**Lawn Grass.**

ED. AM. FLORIST:—There has been some difference of opinion expressed here as to whether the grass should be raked off lawns after the lawn mower. I have

taken a stand on the subject and would like the opinion of some of the practical contributors to your journal. I would esteem it a great favor if you would raise the question in the AMERICAN FLORIST, the point aimed at being a good clean lawn independent of the labor involved.  
R. U.

**Cut Flower Price Lists Received.**

H. L. Sunderbruch Co., Cincinnati; Ellis & Pollworth, Milwaukee; Bassett & Washburn, Chicago; Kennicott Bros. Company, Chicago.

**Catalogues Received.**

J. H. H. Boyd, Gage, Tenn., tree seeds; Wood Bros., Fishkill, N. Y., plants; Schlegel & Fottler, Boston, Mass., bulbs; W. L. Clark, Leamington, Ont., plants and seeds; Ellis & Pollworth, Milwaukee, Wis., plants.

**Greenhouse Building.**

Springfield, Ill.—Bell Miller, one rose house, 30x115, one chrysanthemum house 10x115, one carnation house 20x70, one violet pit 6x115, one extension 29x20.

Galena, Ills.—B. F. Vandervate, one greenhouse 18x80.

Toronto, Ont.—John H. Dunlop, two commercial houses, each 20x400.

Brampton, Ont.—H. Dale, two greenhouses each 20x600. R Jennings, one greenhouse 18x100.

**Hail Notes.**

The greenhouses of the Junction City Floral Co., of Junction City, Kan., and Wm. P. Ransom, of the same town, and those of A. B. Davis & Son, of Purcellville, Va., were struck by hail on the 11th inst. All were insured in the Florists' Hail Association.

On May 14 the establishment of the Humfeld Floral Company at Kansas City, Mo., were reduced to a complete wreck by hail. The loss will exceed \$1,500.

Gus Obermeyer reports a hailstorm which did excessive damage at Parkersburg, W. Va., on May 15, both glass and plants being broken down.

**How to Keep Catalogues.**

Everyone knows how handy catalogues are for reference, and also what a nuisance it is to find the one you want when you are in a hurry. I have been studying for years to get some cheap and easy way of keeping catalogues, so I could find any one I wanted quickly, and having found one which fills the bill perfectly for me, am minded to tell the readers of the AMERICAN FLORIST all about it. I first made a number of shelves, one above another, four inches apart and large enough for large size catalogues to lie on them flat.

When a catalogue is received, I number it and put it on the bottom shelf. Then I open my AMERICAN FLORIST'S DIRECTORY OF FLORISTS AND SEEDSMEN to the list of firms issuing catalogues and put the same number before the name of the firm who issue this particular catalogue. Number two is treated the same way and placed on top of number one, and so on until the shelf is full. The shelf is then marked plainly, "Nos. 1 to 25," or whatever the last number may be, and the next shelf is used in the same way.

The catalogues are numbered for convenience on the cover near the lower left-hand corner. When a catalogue is needed, we simply open the directory, which is al-

ways left lying on the top of the last catalogue filed, get the number of the catalogue wanted and can pull it out in less time than it takes to tell about it.

B. JONES.

**Society of American Florists.****PURCHASING DEPARTMENT.**

At a meeting of the executive committee of the Society of American Florists and Ornamental Horticulturists held at Washington, D. C., March 15 and 16, 1898, by unanimous vote, a department of co-operative purchase was created. Its purpose is to secure lower prices by obtaining bids on large quantities of such materials and supplies as are used by the society's members.

The undersigned committee was appointed to carry this plan into immediate execution, so that present members, or those who join the society may have the benefit which may accrue from this department before the next annual convention, and in this way test its value.

We, therefore, request that you make a list of your probable wants for one year, from April 1, 1898, on all kinds of materials or supplies that you may require, such as glass (state size, quality and thickness of same); pipe, valves, nails, etc. (state kinds and sizes); coal, (state kind and quality); rubber hose (state size and make you prefer); fertilizer (kind and make); tobacco stems. Also a list of any and all other supplies not above enumerated, giving detail as to quantity, quality, make, etc.

As soon as a sufficient number of replies are received, the amount will be collated and estimates will be invited for supplying the same to all members of the Society of American Florists, delivered f. o. b. at factory or some convenient shipping point. Each member of the society will be entitled to his supply of such material, whether large or small, at contract prices. It is believed that a large per cent. upon purchases can be saved to the society's members, especially to the small buyers, as in contracting for large quantities much better prices can be obtained.

Please be prompt in sending us reply, giving a list of your probable wants to April 1, 1899. It will enable the committee to give you more promptly the results of their efforts.

EDMUND M. WOOD,

W. W. COLES,

W. K. HARRIS,

Committee.

All communications should be addressed to William J. Stewart, secretary, 67 Bromfield street, Boston, Mass.

**Springfield, Ill.**

Trade is very quiet at present, as the social season is ended, and the sale of cut flowers is thereby restricted, while the plant trade is not yet opened. All winter business was brisk, and at Easter sales were only limited by the amount of good stock available.

Bell Miller, wholesale and retail dealer in cut flowers, has enjoyed such a phenomenal increase in trade that she is nearly doubling the capacity of her establishment at 829 South Second street. She is repainting and repairing everything on the place and is putting in a boiler and steam heating plant. When the improvements are completed she will have a model place with a glass area of 20,000 square feet. Miss Miller has been engaged in commercial floriculture for but five years.

Omaha.

PLANS FOR THE S. A. F. CONVENTION IN AUGUST.—BANQUET TO PRESIDENT GUDE AND SECRETARY STEWART.—A BUSINESS CHANGE.

The Nebraska and Iowa Florists' Club met last Thursday evening but immediately adjourned for one week in order to give those present an opportunity to get better acquainted with W. F. Gude, of Washington, D. C., president, and W. J. Stewart, of Boston, secretary of the S. A. F. About an hour was spent in listening to addresses by Messrs. Gude and Stewart before our guests were ushered to the Delone hotel, where a banquet had been prepared. The table decorations were of Bridesmaid, red carnations, Easter lilies and adiantum. The musicians were in one corner behind a screen of palms, while other plants were scattered about the hall. Those who contributed post-prandial oratory were President Gude, Secretary Stewart, L. C. Chapin, of Lincoln; A. Delaney, of South Omaha; J. F. Wilcox, of Council Bluffs, Ia.; Ed. C. Erling and Lewis Henderson, of Omaha, the latter gentleman reciting his favorite, "The Mission of Flowers."

Mr. Donaghue, Jr., suggested something aside from speeches for the guests and headed the list as a member of the Society of American Florists. This was gratifying to Mr. Stewart, who agreed to sing a song should he obtain ten new names. As the eleventh man gave in his name the song was asked for and Mr. Stewart responded promptly, singing that popular old air "Annie Rooney."

Those who attended the banquet were: William F. Gude, Washington, D. C.; W. J. Stewart, Boston, Mass.; L. A. Moore, Plattsmouth, Neb.; Henry Peterson, Florence, Neb.; J. F. Wilcox, Council Bluffs, Ia.; L. C. Chapin, Lincoln, Neb.; A. Delaney, Fred. Berlinghoff and Lewis Henderson, South Omaha; John Simmons, R. H. Davey, A. Donaghue, Sr., A. Donaghue, Jr., Ed. C. Erling, S. B. Stewart, Geo. Swoboda, Ben Haas, Glen R. Hodson, Joseph Chalmers, Paul B. Floth, J. J. Hess and Mr. Adams, superintendent of city parks, Omaha.

The committee arrived in Omaha early Thursday morning and secured the First Congregational church for the convention in August. This is pronounced the best building the society has ever been able to secure for its annual sessions.

Karr & Davidson have succeeded Robert Unger at the old Parker place, and have opened a down town store, with Miss Kate Parker in charge. G. R. H.

Pittsburg.

REDDER PLANT MEN ARE DOING THE BUSINESS OF THE SMOKE CITY.—LATE FROST.—SEMI-THE DOINGS.—LANGHANS' SUCCESS.

A visit to the market or the majority of the florists' establishments at this time furnishes one with plenty of evidence that the gray of a bedding plant will do the trick of the business during these two or three weeks. In Michigan, especially on the west and north sides of the large market building the reds are part of the very wide pavement and have been entirely taken up with the deposit of all varieties of blooming bedding plants.

The weather in the early part of the week treats Tuesday and Wednesday as a rule emphasizes the fact that it is not safe in this latitude to plant bedding stock before the 20th of May, whereas formerly the 15th was

considered about the right time to begin. The stock grown this year is almost invariably of good quality, much better than in 1897, while the ruling prices are about the same as in late years. The Memorial Day trade gives every promise of being greater than usual.

James Semple, of Bellevue, reports business as brisk with him, especially at the greenhouses, he having a very extensive trade at this season of the year at home. He informs me he has commenced planting out his asters and will put in fully double the quantity he usually does in order to meet the increased demand for the seed, and more particularly in separate colors.

Langhans & Co. have been getting a goodly share of the business and express themselves as well satisfied considering the condition of affairs at present. They have in addition to their cut-flower trade developed quite a good business in foliage plants, palms, etc.

Mr. Rankoff was a visitor with us this week. REGIA.

Worcester, Mass.

Funeral work has kept down the surplus of stock this week, although flowers are very plentiful and the regular trade is dropping off very rapidly. Trade usually falls off a little just before Memorial Day, but it seems worse this year than usual.

The quality of blooms still keeps up, but prices have a downward tendency. The bedding trade is not starting very well and growers who have a large stock of bedding plants are getting anxious. A general slaughtering of prices would not be surprising, though present charges leave a very small margin of profit.

Many growers who contemplate adding to their establishments are hesitating on account of the high price of glass, and quite a few will not build unless prices take a drop.

From all appearances the stock of flowers available for Memorial Day will be much larger than heretofore, with the quality very good. Lily of the valley, Narcissus Poeticus, white lilac and dentzia, field grown, will be in good condition and will help out greatly in designs. The war spirit should have influence on trade and unless popular enthusiasm runs entirely to flags, florists should profit thereby. A. H. L.

SAN RAFAEL, CAL.—H. Schluter reports that never in the past nine years has business been so dull in his locality. Rain fell on May 14 for the first time since early in February.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each. Insertion Cash must accompany order. Plant ads. not admitted under this head. Every paid subscriber to THE AMERICAN FLORIST for the year 1898 is entitled to a five-line want ad. free to be used at any time during the year.

SITUATION WANTED—By a good all round gardener English married no family, private place preferred. State wages. H. H. 111 ST. Evanston, Ill.

SITUATION WANTED—By a practical florist good propagator and designer. 25 years experience. No take charge. New England preferred. Address H. care American Florist.

SITUATION WANTED—As working foreman of florist who has 10 years experience, also carnations, geraniums, etc. English, since age 25, steady laborer. State wages. G. care Am. Florist.

SITUATION WANTED—By florist young man thorough understanding all work pertaining to cut flowers and a retail establishment competent and experienced. Excellent references. Address G. W. care American Florist.

SITUATION WANTED—By a practical farmer and gardener. German. 42 years of age, no children. Understands his business thoroughly and not afraid of work. Address F. J. LAMPERT, Ansonia, Conn.

SITUATION WANTED—By a married man, no family. English, age 28 years; 13 years experience, thorough in all bran hes. Would like to run small commercial place. Wages \$50 per month. GARDENER. Floral Park, L. I., N. Y.

SITUATION WANTED—By experienced florist, married (no children), middle age; either private or commercial place; understand ruling general stock, greenhouse building and steam fitting. Address FLORIST, 5733 Eston Ave., St. Louis, Mo.

SITUATION WANTED—By June 10th, by practical florist, single, 10 years experience; roses, carnations, violets, miscellaneous stock, etc.; knowledge of floral work and outdoor bedding. References. State wages. Address FRANK, care American Florist.

SITUATION WANTED—As foreman in large cut flower growing establishment by a first-class grower of roses, carnations, etc.; has been foreman in large places for past 10 years; 24 years' experience. Best references. GROWER, care Am. Florist.

SITUATION WANTED—As head gardener in private place or public institution. English, 52, w/flower (one daughter, 25). Thorough horticulturalist, fruits, flowers, vegetables, landscape and ornamental work; 4 1/2 years in Golden Gate Park, one year head gardener in present situation. Best of references. Address, stating wages, etc., G. M. STRATTON, Dunegness, Cumberland Island, Fernandina, Fla.

WANTED—Pair Agave viviparata 3 to 4 ft. spread. Address with description and price VAUGHAN'S SEED STORE, Chicago.

WANTED—First-class florists' wire design worker. Steady work the year round. Apply with refs. HOLTON & HUNKEL Co., Box 103, Milwaukee, Wis.

WANTED—An energetic foreman, married, for large cut flower growing establishment; must be experienced. METEOR, care Am. Florist.

WANTED—By June 1, A No. 1 rose grower (American Beauty a specialty), married man, with good references; fair pay. T. W. L., Englewood, N. J.

WANTED—Gardener, private place, Chicago; palms, orchids, ferns, lawn, garden, tree, cow. Must be competent; state age. Address FLOWERS, 432 Hlalto Bldg., Chicago.

WANTED AT ONCE—An all-round good florist, single. \$18 to \$20 per month with board and room. Mrs. CHAS. RIEMAN, 2226 Senate Ave., N., Indianapolis Ind.

WANTED—Florist competent to grow good stuff, as roses, carnations, mums, violets and general bedding stock; married man well experienced preferred. State wages required and ability, also refs. CHAS. KLOPFER 208 Smithfield St., Pittsburg, Pa.

FOR SALE—Fine retail business with greenhouse large stock plants, palms; or exchange, a bargain have other business. Address H. B., care American Florist.

FOR SALE—East of Chicago & Northwestern Rail way, south of Graceland avenue, land suitable for greenhouse purposes at \$20 to \$25 per front foot. F. F. STODALL, 215 Janssen Ave., Chicago.

FOR SALE OR RENT—Flourishing florist business in western city, including stock and implements. Terms to suit. Good chance for energetic and practical man. For particulars address M, care Am. Florist.

FOR SALE—Four greenhouses, nearly new, splendid retail stand, near business center in residential district, on road to cemetery, paved street. Terms easy. Must retire on account of poor health. A. CLAUS, 36 N. 11th St., Springfield, Ill.

FOR SALE—One high pressure 15-horse power tubular return steam boiler, good as new, used two seasons only; at present heats 12,000 feet of glass. Price complete, 1 or 2, \$90 cash; cost \$200. Address J. F. A. MANN, Box 51, Edwardsville, Ill.

FOR SALE.

Greenhouses in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars write. A. LEIPNER, WAUSAU, Wis.

CHICAGO LOTS FOR SALE.

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot; sewer and water. Suitable for greenhouse purposes.

P. F. HAYNES & CO., Telephone L. V. 247. 1004 Wellington St., Chicago. Mention American Florist.

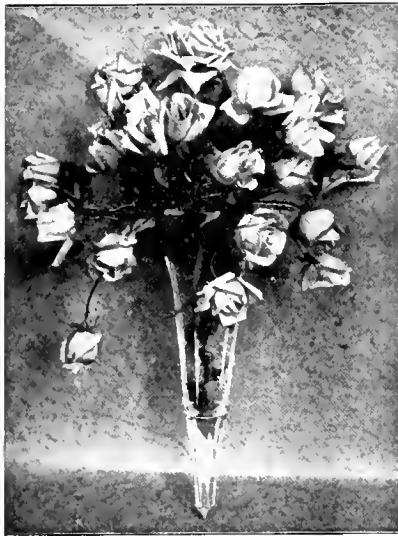
For Sale Cheap!

Wholesale Commission Store, centrally located in New York City; well fitted up with every convenience. Change of location, reason for selling. Address WHOLESALER, care Eastern Office Am. Florist, 6 Bromfield St., Boston, Mass.

# Decoration Day Flowers

BUY YOUR STOCK DIRECT FROM THE GROWERS.

We are now cutting from FIVE to TEN THOUSAND TEA ROSES and TWO THOUSAND BEAUTIES per day, besides a large amount of CARNATIONS, SMILAX, ASPARAGUS and VARIOUS OTHER FLORISTS' STOCK.



You want this for Decoration Day!

VASE FOR THE CEMETERY

THE

## Clara Cemetery Vase

Patent Applied for by Mrs. C. W. Pike.

A RECEPTACLE FOR FLOWERS, LONG NEEDED FOR THE CEMETERY.

The CLARA VASE for use at the Cemetery is a handsome as well as one of the most useful articles ever placed on the market. It is absolutely a new thing and takes the place of all the old tin cans, bottles and various old truck that are usually found in the cemetery for holding flowers, and prove such a disgrace where everything else is beautiful and ornamental. It is composed of solid glass and stands about twelve inches high. The lower end is sharp-pointed so it can be embedded about six inches in the ground and stand firm. It will hold sufficient water to keep the flowers fresh and sweet, and will accommodate flowers with long as well as short stems. The VASE is bell-shaped and the top has a diameter of about five inches. The VASE is sold at a very low price and is within the reach of all classes. It is very strong and well made and can not be broken by rough handling.

Prices, delivered to railroads or express companies in Chicago:

One Dozen, - - - - \$3.50  
 Three Dozen, at - - - - 3.25  
 Five Dozen, at - - - - 3.00

Samples sent on receipt of fifty cents (50c) each. These VASES will retail in the market for from 50c. to 75c. each, thereby giving the dealer a profit of over a hundred per cent on his investment.

FLORISTS' STOCK.

We have a very fine lot of fancy common ferns and green galax leaves just received.

Don't fail to write for our DECORATION DAY PRICE LIST which will be issued on Friday, the 20th inst. We will ship when possible direct from our greenhouses at Hinsdale, thereby saving the rehandling of the flowers.

Address all orders to....

**Bassett & Washburn.**

Send Orders Now for Decoration Day Sales.

## ROSE PLANTS

We have an extra selected stock of the following Rose Plants. Will guarantee them to be as fine as any grown.

	Per 100	Per 1000
American Beauty... 2 1/2-inch pot.	\$5.00	\$50.00
Bridesmaids... 2 1/2 "	3.00	25.00
President Carnot... 2 1/2 "	3.50	35.00

# Bassett & Washburn

Growers of and Wholesale Dealers in **CUT FLOWERS**

GREENHOUSES AND RESIDENCE:  
 HINSDALE, ILL.

Store: 88 Wabash Ave., CHICAGO.

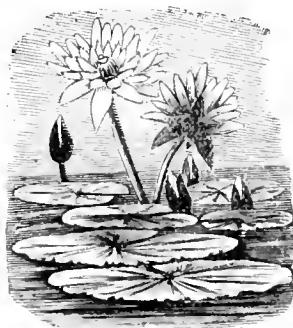
They Don't Miss

Fire... Who take the right course and dispose of surplus stock through the advertising pages of



The American Florist

IT HAS NO RIVAL.



## WATER LILIES....

We are growers and sell at growers' prices. Stock guaranteed.

The White Japan Lotus NYPHAEA SUPERBA The finest of all Nelymbiums. Flowering tuliers, 80c each; \$8.00 per doz. The largest and best hardy Nymphaea plant... 50c each; \$5.00 per doz.

AMERICAN LOTUS	\$20.00 per 100
NYPHAEA MARLIACLE CHROMATELLA	25.00 per 100
NYPHAEA ODORATA	8.00 per 100
NYPHAEA ODORATA ROSEA	25.00 per 100

All other stock in proportion. We have every Water Lily and Aquatic worth growing. Catalogue free.

**GEO. B. MOULDER, Smith's Grove, Ky.**

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
 WHOLESALE  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**KENNICOTT BROS. CO.**  
 WHOLESALE CUT FLOWERS  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE CHICAGO

**E. C. AMLING**  
 Wholesale Cut Flowers  
 51 Wabash Avenue,  
 W. S. HEFFRON, Mgr. ....CHICAGO.

**A. G. PRINCE & CO.**  
 Wholesale Cut Flowers  
 AND FLORISTS' SUPPLIES.  
 Agents for the Hinsdale Rose Co. Special attention  
 paid to shipping orders.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

It is not much trouble to mention the AMERICAN FLORIST when corresponding with an advertiser.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 as they will reach you in just as good condition  
 as they reach us  
**WIRE DESIGNS: A Full Line. Write us for  
 our illustrated Catalogue.**

**Lynch**  
 WHOLESALE FLORIST.  
 19-21  
 E. RANDOLPH ST.  
 CHICAGO

**Wholesale Flower Markets**  
 CHICAGO, May 20.  
 Roses, Beauties ..... per doz. 75@2.50  
 " Brides ..... 1.00@ 4.00  
 " Metesrs, Bridesmaids, Kaiserin. 1.00@ 4.00  
 " Gontlers, Perles ..... 1.00@ 3.00  
 Carnations, common ..... 30@ 1.10  
 fancy ..... 2.00@ 3.00  
 Marguerites ..... .50  
 Narcissus Poetlens ..... .50  
 Harrisli, Callas ..... 2.00@ 5.00  
 Lilly of the valley ..... 1.00@ 3.00  
 Tulips ..... 1.00@ 4.00  
 Sweet peas ..... .50@ 1.00  
 Gladioli ..... 6.00@ 8.00  
 Adiantum ..... .50@ 1.00  
 Smilax ..... 10.00@ 15.00  
 Asparagus ..... 40.00@ 75.00  
 Panicles ..... .50  
 Prunelles ..... per dozen, .25@ .50

**ILLINOIS CUT FLOWER CO.**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**Dutch Bulbs**  
 HYACINTHS, TULIPS, CROCUS, ETC.  
**RUDOLPH VAN TIL & CO.,**  
 Hillegom, Holland.  
 American Representative  
**L. C. BOBBINK, Rutherford, N. J.**  
 ASK FOR CATALOGUE.

**BULBS** For FLORISTS.,  
 For SEEDSMEN.  
**VAN ZANTEN BROTHERS,**  
 HILLEGOM, HOLLAND.

**A. L. RANDALL**  
 Wholesale Florist  
 Don't Forget that we are at 4 Wash-  
 ington St., Chicago.  
 Write for special quotations on large orders.

**Ford Bros...**  
 Wholesale Florists  
 111 West 30th Street, NEW YORK.  
 Consignments Solicited. Telephone, 260 38th St.

**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1075 38th St.

**N. Y. CUT FLOWER EXCHANGE**  
 404-412 E. 34th St. Near Ferry.  
 Open for Cut Flower Sales at 6 o'clock  
 Every Morning.....  
**DESIRABLE WALL SPACE TO RENT  
 FOR ADVERTISING.**  
**JOHN DONALDSON, Secretary.**

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of  
**CUT FLOWERS,**  
 51 WABASH AVENUE,  
 CHICAGO.  
 HEADQUARTERS FOR AMERICAN BEAUTIES.

**REINBERG BROS.**  
 WHOLESALE GROWERS OF  
**Cut Flowers**  
 600,000 FEET OF GLASS.  
 We can fill all orders on short notice with all leading varieties of Roses and Carnations.  
 We Are Headquarters for Fine American Beauties. Give us a trial and convince yourself.  
 NO MORE ROOTED ROSE CUTTINGS.  
**REINBERG BROS., 51 Wabash Avenue, Chicago.**

**ROSE PLANTS**

	Per 100	Per 1000
Out of 2 1/2 inch pots		
American Beauty	\$5.00	\$45.00
Meteor	2.50	22.50
Bride	2.50	22.50
Testout	2.50	22.50
Belle Siebrecht	2.50	22.50
Perle	2.50	22.50
Pres. Carnot	2.50	22.50
Kaiserin	2.50	22.50
Bridesmaid	2.50	20.00
La France	2.50	20.00

**CARNATIONS FROM SAND.**

	Per 100	Per 1000
Flora Hill	\$3.00	\$25.00
GoldBlush	1.50	12.50
Bridesmaid	1.50	12.50
Wm. Scott	1.00	7.50
McGowan	1.00	7.50
Emma Woelher	1.00	7.50

We would like your special attention to our choice  
 Sixty Plant at \$2.00 per 100 and \$15.00 per 1000

**M. A. HART,**  
**Commission DEALER IN Cut Flowers,**  
 44 WEST 29TH STREET,  
 NEW YORK CITY.  
 THE BEST MARKET IN NEW YORK.  
 Phone 1307 38th St.

**TRENDLY & SCHENCK,**  
**Wholesale Florists,**  
 Control the stock of many celebrated growers and  
 are prepared to quote prices on First Grade  
 Cut Flowers. All varieties.  
 38 West 28th St., and Cut Flower Exchange,  
 Tel. 961 18th Street. NEW YORK CITY.

**THE NEW YORK CUT FLOWER CO.**  
 119 and 121 West 23d Street,  
 112 and 114 West 24th Street,  
 Telephone 733-18th. NEW YORK.  
**CONSIGNMENTS SOLICITED.**  
 Special Attention Given to Shipping Orders.

**Wholesale Flower Markets**

NEW YORK, May 18.

Rosea, Beautica, Hybrid	4.00@12.00
" Bridesmaids, Testouts, Brides	.50@ 6.00
" Morgans, Meteors	.50@ 4.00
Carnations	.75@ 1.25
Lily of the valley	1.00@ 2.00
Sweet peas, per 100 bunches	6.00@8.00
Daffodils, Tulips (outdoor)	.50@ 1.00
Harrisl, Callas	4.00@ 6.00
Smilax	10.00@12.00
Asparagus	40.00@50.00

BOSTON, May 18.

Rosea, Beautica, Brunnera	5.00@15.00
" Morgans, Meteors	1.00@ 4.00
" Brides, Bridesmaids, Carnot	2.00@ 6.00
Carnations	.75@ 1.00
" fancy	2.00@ 3.00
Lily of the valley	2.00@ 3.00
Daffodils, Tulips (outside)	.50@ 1.00
Harrisl, Callas	4.00@ 8.00
Sweet peas	1.00
Smilax	20.00@25.00

PHILADELPHIA, May 18.

Roses, Beautica, per dozen	1.00@ 4.00
" Brunnera	16.00@35.00
" Jacqs	8.00@12.00
" Teas	3.00@10.00
Carnations	1.00@ 2.00
Lily of the valley	3.00@ 4.00
Longflorums	5.00@ 6.00
Harrisl	8.00@10.00
Sweet peas	.75@ 1.50
Smilax	12.00@15.00

**John I. Raynor,**  
 49 WEST 28th STREET,  
**NEW YORK.**

**SPECIAL EXTRA STOCK OF**  
 AM. BEAUTY, METEOR,  
 BRIDESMAID, BRIDE.  
**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

**THOS. YOUNG, JR.**  
 Wholesale Florist  
 43 West 28th Street, New York.

**WALTER F. SHERIDAN,**  
 WHOLESALE  
**FLORIST,**  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

**Rose Growers**  
 Will find a good market and good  
 returns for their stock at....

**JULIUS LANG'S**  
 53 W. 30th Street, - NEW YORK.

**Edward C. Horan,**  
 34 W. 29th Street, NEW YORK,  
**WHOLESALE • FLORIST.**

Careful Shipping to all parts of the country  
 Price list on application.

**WM. C. SMITH,**  
 Wholesale Florist,  
 40 So. 16th St., PHILADELPHIA.  
 Consignments Solicited. Special attention given to  
 shipping orders  
 Long Distance Telephone 5008 A.

**CITY HALL CUT FLOWER MARKET,** 9 Chapman Place, 15 Province Street,  
**BOSTON, MASS.**  
**WELCH BROS., PROPRIETORS.**  
 Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported  
 weekly; payments monthly, or oftener if required.  
**THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.**

**J. K. ALLEN,**  
 Wholesale Florist.  
 EXTRA ROSES  
 AND OTHER DESIRABLE SPECIALTIES.  
 57 West 28th Street,  
 Distance Telephone 382-38th St. NEW YORK.

**GALVIN & CO.**  
 Wholesale Florists  
 AND DEALERS IN ALL  
 FLORISTS' SUPPLIES,  
 4 Ordway Place, BOSTON, MASS.  
 Cut Flower Consignments Solicited. Best market.

**GEORGE A. SUTHERLAND,**  
 Cut Flowers AND Florists' Supplies  
 WHOLESALE.  
 67 Bromfield St. BOSTON, MASS.

Wholesale Florists **JOBBERS IN**  
 ALWAYS ON HAND  
 CARNATIONS, BRIDESMAIDS, BRIDES. **FLORIST'S**  
*N. F. McCarthy* **SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Auctioneers.  
 84 HAWLEY STREET, - BOSTON.

**JOHN YOUNG,**  
 ROSES, CARNATIONS, VALLEY  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.

**FRANK MILLANG,**  
 CUT FLOWERS,  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 Cut Flower Exchange. NEW YORK.

Buffalo.

BUFFALO FLORISTS' EXCHANGE IS BURNED OUT.—BUSINESS IS EXCELLENT.—A NEW FLORIST.—COMMENTS.

Buffalo now has another florist in the person of F. G. Liemberner, who occupied a part of the store at 452 Main street with W. A. Adams, and who opened a flower store in connection with his hair store when Mr. Adams moved.

The Buffalo Florists' Club has received an invitation from President Wm. Scott to meet at his Corfu greenhouses on Thursday, and I am sure a good crowd will go, as a trip into the country is always enjoyed by city boys.

The florists have suffered because of the war, as several weddings that gave promise of brilliance were hastened by the young men being called out with their regiments. One officer was single, married and separated from his wife in three hours, but in this instance the separation will, we hope, be only temporary.

American Beauties are being handled very largely by the stores, and good flowers sell readily at \$5 to \$7 per dozen. Other roses are quite plentiful and are of good quality.

Fire visited the Tift block on Washington street on Sunday morning and greatly damaged the stock of the Buffalo Cut Flower Exchange, but Manager Pickelman has secured another store on the same street and will be open for business in a few days. Had the wind been blowing we would have been minus both wholesale houses, as Kasting's store is in the second building from the Tift block.

E. H. Vick, of Rochester, called on local florists last week. W.

MARQUETTE, MICH.—Martin Peterson has established a local agency for the Negaunee greenhouses. He has had experience in floriculture in Sweden.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

WM. F. KASTING WHOLESALE COMMISSION FLORIST....

495 Washington St., Buffalo, N. Y.

Also Dealer in Florists' Supplies and Wire Designs

COMPLETE LINE OF SUPPLIES

WIRE WORK

WE MAKE

IMPORTERS OF

BULBS

PHONE 1270

BOX 75



ELLIS & POLLWORTH MILWAUKEE WIS

# Vaughan, McKellar & Winterson,

45-47-49 Wabash Avenue,

WE OFFER ALL VARIETIES

CHICAGO

## SELECT ROSES and CARNATIONS

We keep a large stock of all miscellaneous stock such as Narcissus, Lilies, Valley, Tulips, Lilac, Pansies, Sweet Peas, Pansies, Smilax, Asparagus, Ferns, etc., etc. Write for special prices on large orders.

GET ORDERS IN EARLY FOR DECORATION DAY.

# NEW WHOLESALE CUT FLOWER STORE

J. A. BUDLONG, WHOLESALE GROWER OF CUT FLOWERS.

OPEN FOR BUSINESS.

37-39 Randolph Street, CHICAGO.

We have decided to dispose of our own production and will be in a position to fill orders with A No. 1 stock. Give us a trial. Also have a large quantity of nice rose plants which we offer as follows:

	Per 100	Per 1000		Per 100	Per 1000
American Beauties.....	\$5.00	\$40.00	Meteor.....	\$3.00	\$25.00
Brides.....	3.00	25.00	Kaiserin.....	3.00	25.00
Bridesmaids.....	3.00	25.00	Perle.....	3.00	25.00

This stock is guaranteed to be first-class in every respect. Nothing but first-class sent out. Terms, cash with order.

## Wholesale Flower Markets

### CINCINNATI, May 19.

Roses, Beauties, select.....	20 00
" " medium.....	10 00@15 00
" Brides, Bridesmaids.....	3 00@ 4 00
" Meteora, Bridesmaids.....	4 00@ 5 00
" Perle.....	3 00
Carnations.....	1 00
" fancy.....	1.50@ 2 00
Marguerites.....	2 25
Lily of the valley.....	3 00
Harrill.....	8 00
Callas.....	6.00@ 8 00
Stocks.....	2 00
Smilax.....	12.50
Adiantum.....	4 00
Asparagus.....	50.00

### ST. LOUIS, May 19.

Roses, Beauties.....	2 00@33 00
" Meteora.....	1.00@ 4 00
" Brides, Bridesmaids.....	1.00@ 4 00
" Perle.....	1.00@ 4 00
" Kaiserin.....	1.00@ 4 00
Carnations.....	1.00@ 3 00
Violet, California.....	.35
" double.....	.35
Lily of the valley.....	2.00@ 3 00
Harrill.....	6.00@10 00
Callas.....	5.00@ 8 00
Smilax.....	15.00@20 00

### MILWAUKEE, May 19

Roses, Beauties.....	10 00@20 00
" Brides, Bridesmaids.....	2 00@ 4 00
" Perle.....	2 00@ 4 00
" Meteora.....	2 00@ 4 00
Carnations.....	1 00@ 2 00
Sweet peas.....	.50@ 1 00
Valley, indoor.....	3 00
" outdoor.....	1 00@ 2 10
Tulips.....	1.00@ 2 00
Pansies.....	3 00
Smilax.....	15.00
Adiantum.....	7.50 1 00
Irb. Hispanica.....	4 00@ 6 00

### BUFFALO, May 19.

Roses, Beauties.....	10 00@40 00
" Brides, Bridesmaids, Meteora.....	3 00@ 6 00
" Perle.....	2 00@ 4 00
" Niphetos.....	2 00@ 4 00
" Kaiserin.....	3 00@ 6 00
Carnations, white and colored.....	1 00@ 2 00
" Daybreak and fancies.....	2 00@ 3 00
Lily of the valley.....	4 00@ 4 00
Violet.....	1 00@ 1 25
Narcissus.....	3 00@ 1 50
Harrill.....	8 00@10 00
Callas.....	7 00@10 00
Tulips.....	2 00@ 3 00
Pansies.....	10- 50
Smilax.....	15 00
Adiantum.....	1 00@ 1 25
Asparagus.....	40 00@75 00

## HOLTON & HUNKEL CO.

MEMBERS OF

The Wisconsin Flower Exchange.

Fresh Cut Flowers, Florists' Supplies  
Manufacturers of WIRE DESIGNS

Consignments Solicited Phone Main 574  
457 Milwaukee St., MILWAUKEE.

## C. A. KUEHN, Wholesale Florist.

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

## MOUND CITY CUT FLOWER CO.

Wholesale Florists.

CONSIGNMENTS SOLICITED

Special attention given to shipping orders

1322 Pine St., ST. LOUIS, MO.

## C. W. WORSER

2740 Olive Street,  
ST. LOUIS, MO.

## FLOWERS

at  
.....WHOLESALE....

.....ROSES, and a full line

Headquarters for the South West

## ST. LOUIS CUT FLOWER CO.

Wholesale Florists

## E. H. MICHEL

1620 Olive St.  
ST. LOUIS, MO.

**H-L-SUNDERBRUCH CO.**  
WHOLESALE (COMMISSION) FLORISTS  
4th and WALNUT STS.  
CINCINNATI, O.  
CONSIGNMENTS SOLICITED  
SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

## Asparagus Plumosus Nanus.

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.



# Volunteers Wanted!



Room for a few desirable recruits in our army of satisfied customers. **ENLIST at ONCE by SENDING US YOUR ORDER** FOR

**Cut Flowers  
For Decoration Day.**

**E. C. ANGLING,** 51 WABASH AVENUE,  
W. S. HEFFRON, MANAGER. CHICAGO.

## Going, Going, Gone!

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(See review in American Florist, page 1173, April 30, 1898.)

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via Nickel Plate Road, June 3 to 6 inclusive. \$11.35 for the round trip on certificate plan. Tickets good returning until June 13 inclusive. Three through trains daily from Van Buren Street Passenger Station, Chicago. For further information address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (22)

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meeting will be held in Cleveland, O., June 7 to 9 inclusive, account of which Nickel Plate Road will sell tickets at \$11.35 for the round trip on certificate plan. Dates of sale June 3, 4, 5 and 6 inclusive. Tickets good returning until and including June 13. For further particulars address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (23)

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THE San Jose scale has been found on nearly all classes of nursery stock, both fruit and ornamental, commonly grown in northern nurseries.

THE NEW climbing rose Psyche, originated by Messrs Paul & Son, Cheshunt, England, is a cross between a Polyantha rose and Crimson Rambler. The flowers are of good size, very double and of a light rose tint.

APHIS on young nursery stock can be controlled by dipping the infected tips of branches in a solution of whale oil soap, one pound to seven gallons of water, according to a late bulletin of the New York Experiment Station.

Utica, N. Y.

As usual at this season of the year, C. F. Baker's establishment resembles the proverbial beehive. I found a small army of men scattered about the greenhouses, some attending to carnations and others to roses, while F. Baker, Jr., had the ferns in charge. Ferns are one of their specialties and they are preparing at least two hundred thousand for the market. In order to extend their facilities in this special branch, it is quite likely that more glass will be added during the coming summer.

The demand with which Red Jacket and Oneida, the two seedlings introduced during the past winter, have met, surpassed Mr. Baker's most sanguine expectations. In fact, there was not enough stock to go the rounds. I will remark in passing, for the benefit of those who have invested in the seedlings, that with ordinary treatment both will do well wherever planted. A white one is now on the list and may be heard from a year hence.

An experiment worth recording is that of Mr. Baker with grafted roses. He finds that Brides and Bridesmaids grafted on Manetti are in no wise an improvement over young stock on its own roots.

T. E. Shaw is now installed in his new quarters at 217 Genesee street. The store combines all the modern facilities which are essential features of modern flower stores.

A call on Wm. Mathews was a treat, for nowhere, and least of all in a commercial place is there such a variety of orchids in such splendid condition. Next to the Hispano-American quarrel, orchids were the topic of an hour's chat, and to hear Mr. Mathews dwell on his favorite subject is to enjoy a discourse the like of which no professional lecturer could give.

At J. C. Spencer's, as usual, things looked spick and span. His carnations and roses are as fine as they are ever grown, while his bedding stock presents a mass of bloom. J. C. Bigelow has no "kik coming." With a fine stock and bright prospects, life, in his opinion, is worth living. He reports an encouraging business.

Congratulations are now in order and same may be addressed to Alderman Frank Baker, Jr., Utica, N. Y. On April 27 Mr. Baker embarked upon the matrimonial sea, having been happily married to Miss Rose Weisbecker. The young couple have but recently returned from a wedding trip to Philadelphia and New York.

GLENBROOK, CONN.—J. Callahan has removed to this city from Stamford, Conn., and will engage in nursery business as well as commercial floriculture.

**Armstrong's  
 Everblooming  
 Tuberoses**

A NEW departure in Tuberoses growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

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New and rare hardy plants for forcing. Novelties in Ferns raised by the largest London grower. The newest and best varieties of roses; H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

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**HARDY  
 Herbaceous Perennials**  
 THE MOST COMPLETE STOCK IN AMERICA.  
 PÆONIES, PHLOX, IRIS, DELPHINIUMS,  
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 The Reading Nursery, READING, MASS.  
 ESTABLISHED 1854.

**HARDY SHRUBS**  
 Assorted in 25 Varieties.  
 My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.  
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**Florists' Stock for Bedding**  
 Alternanthera, Coleus, Geraniums, Pansies, Daisies, Verbenas, Fuchsias, Salvia, etc., etc. Write for prices. Florists when in Milwaukee are invited to look over our stock.  
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**EVERGREENS, Etc.**  
 20,000 American Arbor Vitas, 2 to 8 feet specimens and bedding plants.  
 5,000 Pyramidal Arbor Vita, 2 to 4 feet.  
 20,000 Compacta, Globe and other dwarf Arbor Vitas, all sizes.  
 3,000 Nordmann's Silver Fir, 1 to 2 1/2 feet.  
 2,000 European Silver Fir, 2 to 4 feet.  
 5,000 Hemlock Spruce, 1 to 4 feet.  
 10,000 Norway Spruce, 3 to 8 feet.  
 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.  
 5,000 Irish Junipers, 1 to 2 1/2 feet.  
 10,000 Pines, Austrian, Scotch, Excelsa, White and dwarf varieties, all sizes.  
 1,000 Eucymous Japonica, 18 to 36 inches.  
 2,000 Eucymous radicans variegata.  
 1,000 English Holly, 1 to 4 feet.  
 3,000 Mahonia aquifolia and Japonica.  
 3,000 English Ivy, strong plants.  
 Prices low. Correspondence solicited.  
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At lowest prices. Small orders filled from experimental garden (Columbia Road, Dorchester, Mass. Wholesale catalogue, 1888, free to the trade.

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 Office: 272 Boylston St., BOSTON, MASS.

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 Headquarters for Japan Lilies, Cyasas Revoluta, Morning Glory, all kinds of Japanese plants, seeds etc., etc. Large assortment always in stock. Orders promptly executed. Write for catalogue.  
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**Prize Winning Dahlias**  
 Send for 1898 illustrated wholesale catalogue before placing orders elsewhere.  
**W. P. PEACOCK, - Atco, N. J.**

**Clematis**  
 Large flowering, strong young plants of the following leading sorts...  
 Jackmanni, Henryi, Duchess, Ramona, Mme. Ballard, Princess, Mme. Ed. Andre, Superba. Just right for potting or planting up for next Fall and Spring sales. \$4.00 per doz., \$8.00 per 100...  
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**The Only Machine**  
 on the market for automatically filling and sealing seed packets.  
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**A LIVE AND RELIABLE CORRESPONDENT  
 WANTED** in every live city in the world. We enable you to deliver flowers by telegraph. A profitable convenience. For particulars, write  
**C. B. WHITNALL,**  
 438 Milwaukee St., MILWAUKEE, WIS.

**Kansas City.**

THE MOST DESTRUCTIVE HAIL STORM ON RECORD DID THOUSANDS OF DOLLARS OF DAMAGE ON MAY 14.

When Kansas City starts in to do anything big, she generally "gets there," and when she started in Saturday last to break the hail storm record she surely did it. Starting at 6:30 p. m. and lasting for twenty minutes the hail paid no attention to mere stones but came down in chunks. A bombardment by a Spanish fleet could not have been more disastrous so far as glass was concerned.

At the greenhouses of the E. T. Heite Floral Co., not a light of glass was left and even the sash bars were beaten in. The same thing happened at Humfeld Bros.' greenhouses. Some of their houses were covered with lath screens, but the hail did not stop at a little thing like that. W. J. Barnes has 830 lights of glass left out of 6,490 square feet, and the loss of plants was very heavy. Other losses were Probst Brothers Floral Co., \$4,500; James Payne, \$2,000; R. Jarrett & Son, \$1,000; A. F. Barbe, \$2,000; R. S. Brown & Sons, \$4,000. Paul Ducret, at the Union Cemetery, is also a heavy loser. The Baker Bros. report almost a total loss. Chick-Pratt Floral Co. lost about 600 lights. What has made this storm more disastrous is that owing to the bad, cold, wet weather very little of the spring bedding stock had been moved and was still in the houses.

At the place of the Ackerman Bros. their fine new house filled with cucumbers was riddled and the plants were beaten to pulp. They had just finished planting out tomatoes, big bushy plants a foot high, but the hail left no trace of them, lettuce, cabbage, rhubarb, alike being obliterated.

While there was a good deal of small hail the average size was large enough to break any glass exposed to it and the only wonder is that any remains.

Many dwellings, churches, business houses and other buildings suffered very severely, the fine new Manual Training School being especially unfortunate. It is very satisfactory to know that most of the florists were insured, R. Jarrett & Son being the only ones who had not taken out insurance. The Probst Floral Co. had, unfortunately, allowed theirs to expire. Many of the florists were caught in a hail storm last year, among them being James Payne, upon whom this last disaster falls heavily. His houses were crowded with fine bedding plants, a very large proportion of which are ruined.

The parks met with great loss and Dr. I. M. Ridge's three fine conservatories were completely wrecked. W. J. B.

**Los Angeles, Cal.**

Los Angeles decided some months ago to hold the annual Fiesta during the first week in May, but when it became evident that war was inevitable the management of La Fiesta concluded to postpone the celebration until the return of peace.

A few days ago, Albert K. Smiley presented to the city of Redlands a magnificent building and ample grounds for a public library. The buildings and grounds have already cost \$60,000. The grounds are being rapidly converted into a park, and rare products of the tropics will soon be found growing there. In order to stimulate owners to make their home grounds neat and pretty, Mr. Smiley, one year ago, offered a prize of \$250 for the prettiest place. The rivalry was so great, and so many competed, that

it was necessary to divide the prize among many worthy places.

Thomas Patch, formerly with the firm of Pitcher & Manda, is visiting Los Angeles. He had an exciting experience on the way out, as the train was held up, and two train employes and one robber were killed. Nevertheless, he is favorably impressed with this part of the world and may remain here.

Conrad Ohnemuller, who for several years has been employed in Philadelphia, has returned to Los Angeles for the benefit of the health of some of his family. His address is 1326 Starr street.

C. J. Hartel, who has been in charge of the Oak Grove Nurseries, at Alhambra, has resigned and gone to San Francisco.

George Watson, of Redondo, was in

the city on Monday and said that the supply of carnations far exceeds the demand, and that he expects this state of affairs to continue until cold weather comes again.

Mrs. M. J. Sherman, who conducted a floral store on Spring street during the winter months, has discontinued business for the dull season. Some of the other stores are scarcely paying expenses at present.

E. H. Rust, one of the horticultural commissioners of this county and the principal owner of the Park Nursery Co., of Pasadena, has departed for Illinois with the avowed intention of taking a new partner into the firm. When Ed. comes back his many friends will heartily welcome his bride. D. R. W.

**FOR THE SOLDIERS**

MEMORIAL DAY will be here in one week, and there will be a boom in supplies appropriate for the demands of the day.

Cycas Wreaths, Metal Designs in endless variety, Moss Wreaths, Doves, Inscriptions, Flower Holders for Caskets, Immortelles, Cape Flowers, Baskets and Sheaves.

Every florist will need a big stock of all these things. We can supply these and all other requisites at lowest figures. Illustrated catalogue on application. Wholesale only.

**H. Bayersdorfer & Co.,**

50-52-54-56 N. Fourth St. PHILADELPHIA, PA.

**SMALL GREEN GALAX**

For use with... VIOLETS  
Stiff, wiry stems. Work up beautifully. Are all the rage.  
Box of 5000, \$5.00. Less quantity at \$1.25 per 1000.  
...ADDRESS...

**HARLAN P. KELSEY,**  
1150 Tremont Bldg., - BOSTON, MASS.

**HARDY CUT FERNS**

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at  
**H. E. HARTFORD'S,** 18 Chapman Place, BOSTON.

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A Complete Catalogue for Florists. Send for One.  
**ELLIS & POLLWORTH**  
MILWAUKEE, WIS.

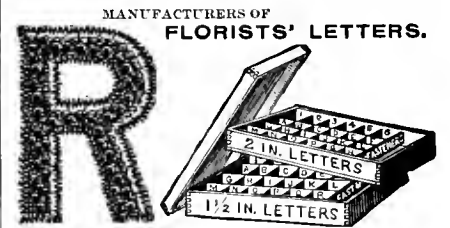
**M. Rice & Co.**

Exclusive Importers and Manufacturers of...  
**Florists' Supplies**  
25 N. 4th Street, - PHILADELPHIA, PA.

**REED & KELLER....**

**Florists' Supplies**  
122 W. 25th St., NEW YORK CITY.

**Boston Florist Letter Co.**



MANUFACTURERS OF FLORISTS' LETTERS.  
This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.  
Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.  
Script Letters, \$4. Fastener with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. McCARTHY, Treas. and Manager,**  
84 Hawley St., BOSTON, MASS.

**August Rölker & Sons**

Cape Flowers, Cycas Leaves, Florist Baskets, **SUPPLIES.**  
Send for trade list; also for prices on fall bulbs, azaleas, etc., imported to order. Address  
**52 Dey Street, NEW YORK.**

**John Conley & Son,**

Manufacturers of **TIN FOIL**  
2 AND 4 DOMINICK STREET, New York.

**GALAX LEAVES,**

For Decorating and all Florists' Designs.  
**CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.**

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres. E. B. CLARK, 1st Vice Pres. S. F. WILLARD, Wethersfield, Conn., Secy and Treas.

W. WERNICH, seedsman, of Milwaukee, died last week.

Visiting New York: Albert McCullough, Cincinnati, O.

CONNECTICUT seed growers are drowned with rain again this season.

C. E. ANGELE & Co., of Oshkosh, Wis., made an assignment, May 6, to George Hilton, of that city.

Visiting Chicago: Theo. Koss, of Milwaukee; Henry A. Salzer, of La Crosse, Wis., who expects soon to make a western trip.

MISS HEADWORTH, bookkeeper at Vaughan's New York seed store, beams again in her accustomed place, after an illness of three weeks.

THE Albert Dickinson Co., formerly at 16th and Clark streets, Chicago, have moved into more convenient and commodious offices at West Taylor street and the river.

A COMMITTEE consisting of Messrs. W. Warnar, L. Van Leenwen and Baartman passed through Chicago, May 17, en route to Washington to investigate the bulb growing prospects of that state.

THE American Seed Trade Association will hold its sixteenth annual meeting at Old Point Comfort, Va., beginning Tuesday, June 14. A good attendance is expected. Full particulars as to routes, etc., can be had on application to Secretary S. F. Willard, Wethersfield, Conn.

CALIFORNIA mail reports the past week indicate that most crops are in a critical condition. Hot winds at this time would be very disastrous, and unless the weather is very favorable from now until August all crops not irrigated will be very uncertain. Hay is now being shipped from the east and the state is liable to use a good many thousand tons before the season is over. As we go to press a telegram reaches us saying that recent rains, May 14th and 15th, may make halt a crop of onion seed, but that the sweet pea outlook is but little improved.

An Important Circular to Seedsmen.

UNITED STATES DEPARTMENT OF AGRICULTURE, OFFICE OF THE SECRETARY, WASHINGTON, D. C., May 10, 1898.

The act of Congress making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1899, under the heading "Botanical Investigations and Experiments, Division of Botany" contains the following clause:

The Secretary of Agriculture is hereby authorized to purchase samples of seeds in open market test same and when found not up to standard may at his discretion publish the results of the tests together with the names of the seedsmen by whom the seeds were sold.

The purchase of seeds for the tests authorized under this act will begin July 1, 1898.

The following standards are the basis for the decisions of the Department:

STANDARDS OF PURITY AND GERMINATION OF SEEDS OF CERTAIN KINDS.

The seed must be true to name and practically free from smut, ant ergot insect or of their eggs or larvae, and the seeds of dodder (*Cuscuta* spp.) wild mustard (*Brassica* spp.) wild flax (*Camelina* spp.) Russian thistle (*Salsola kali* Tragus), Canada thistle (*Carduus arvensis*), cockle (*Agrostemma githago*), chess (*Stomus scabellus*), quack grass (*Agropyron repens*), penny cress (*Thlaspi arvense*), wild oat (*Avena fatua*) and the bulblets of wild onion (*Allium vineale*). It must not contain more than one per cent of other weed seeds

and should come up to the percentages of purity and germination given in the following table.

Kind of seed	Purity.	Germination.
	Per cent.*	Per cent.
Alfalfa	98	85-90
Asparagus	99	75-80
Barley	99	90-95
Beans	99	90-95
Beet	99	140-150†
Blue grass, Canadian	90	45-50
Blue grass, Kentucky	90	45-50
Brome, awnless	90	70-75
Buckwheat	99	90-95
Cabbage	99	90-95
Carrot	95	80-85
Canflower	99	80-85
Celery	98	61-65
Clover, alsike	95	75-80
Clover, crimson	98	83-85
Clover, red	98	85-90
Clover, white	95	75-80
Collard	99	90-95
Corn, field	99	90-95
Corn, sweet	99	85-90
Cotton	99	85-90
Cowpea	99	85-90
Cucumber	99	85-90
Eggplant	99	75-80
Fescue, meadow	95	85-90
Lettuce	99	85-90
Kafir corn	98	85-90
Melon, musk	99	85-90
Melon, water	99	80-85
Millet, common ( <i>Chaetochloa Italica</i> )	98	85-90
Millet, hog ( <i>Panicum mitiaecum</i> )	99	85-90
Millet, pearl	99	85-90
Oats	99	90-95
Okra	99	80-85
Onion	99	75-80
Parsley	99	70-75
Parsnip	95	70-75
Peas	99	90-95
Pumpkin	99	85-90
Radish	99	90-95
Rape	99	85-90
Rye	99	90-95
Salsify	98	75-80
Sorghum	98	85-90
Soinach	99	75-80
Squash	99	85-90
Timothy	98	85-90
Tomato	98	85-90
Turnip	99	90-95
Tobacco	98	75-80
Vetch, hairy	98	70-75
Vetch, kidney	99	85-90
Wheat	99	90-95

It will be the aim of the Department of Agriculture in carrying out this law to put a stop to the sale of seed so poor as to make probable a positive injury and loss to the purchaser, thus giving protection on the one hand to the farmer and gardener, and on the other hand to the honorable seedsmen and seed dealer.

The purchase and testing of the seeds will be carried on under the supervision of the Botanist of the Department, Mr. Frederick V. Coville, and in the immediate charge of Mr. Gilbert H. Hicks, Assistant Botanist.

Seeds showing a test as high as these standards are considered of high grade. Seeds falling five points below the standard in purity, or containing an appreciable amount of the prohibited seeds or more than one per cent of other weed seeds, or falling twenty points below the maximum percentage in germination are, in general considered unfit for sale as first-class seed, and if sold as such the results of the tests are liable to publication. Furthermore, if seeds sold as of lower grade are found to contain a large amount of weed seeds or show a very low germination, so as to render them practically valueless or seriously injurious, the results of these tests also are liable to publication. It is recognized, however, that in certain cases, as in highly bred varieties or growth and harvest under unfavorable seasonal conditions, seeds may show a germination lower than the normal, and due allowance will be made.

JAMES WILSON, Secretary.

\*Impurity allowed refers to inert matter and one per cent (only) of weed seeds other than those practically prohibited, as above noted.

†Each beet fruit, or "ball," is likely to contain from 2 to 7 seeds. One hundred balls should yield 1-2 plants.

‡This means purity of grain, not purity of stock. A margin of 10 points is allowed in the clovers (except crimson clover), grasses and carrot. A margin of 50 points is allowed in beet, and only 15 points in the bluegrasses.

Manufacturers and Dealers  
**BAGS** COTTON SEAMLESS,  
 BURLAPS, ETC.  
 SECOND HAND BAGS BOUGHT AND SOLD.  
**CINCINNATI BAG CO.**  
 Second and Walnut Sts., CINCINNATI, O.



**RAFFIA** BEST QUALITY, LONG MADAGASCAR. Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb. f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

**Grafting Wax**  
 Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut Streets, Philadelphia, Pa.

**G. C. Watson,** Seedsman.

**Seed Stores and Flower Stores..**  
 can profitably handle our ODORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed.....  
 We furnish Pure Bone Meal for florists use. Guaranteed analysis... Ammonia..... 5 per cent. Bone Phos..... 55 per cent. Write for sample and prices.....  
**THE WALKER FERTILIZER CO.**  
 Clifton Springs, N. Y.

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<b>Tuberoses...</b>	Per 100	Per 3000
Dwarf Excelsior Pearl, strictly first size.....	\$.85	\$7.50
3000 for \$19.00.....		
Second size.....	.50	3.50
All bloomers; 3000 for \$9.00.....		
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From SOMERGEM near Ghent, Belgium

SPECIAL Growers and Exporters of Azaleas, Palms, Araceliarlas and other decorative plants, take pleasure to inform you that their MR. AUG. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their New Azaleas will be the favorites of the future. Write for price list and special offer.

AUGUST HAERENS CARE OF... VANDERGRIFT CO.  
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## Wholesale Cut Flowers

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AND Florists' Supplies

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ROOMS 22 AND 23.

SPECIALTIES  
FOR DECORATION DAY:

Cape Jasmines

Pæonies

Poets' Narcissus

Gladiolus

AND ALL SEASONABLE  
FLOWERS



## Longiflorum Lilies...

(Specially grown for  
Decoration Day.....)

SEND ORDERS EARLY.

\$1.00 per dozen; \$7.00 per 100.

DON'T FORGET WE HANDLE ROSES & CARNATIONS  
IN QUALITY AND QUANTITY.

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After May 27 we can supply extra large plants of Bougainvillea glabra(?) and glabra Sanderiana, these are in 8 to 12-inch pots and now in full flower, which will be cut this coming week. These plants can have all the soil shaken off and be shipped at proportionately low cost. Write for prices.....

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9 mi. below Pittsburg.

We mail 7 plants of above for \$1.00.  
Please credit Am. Florist if you order from this adv.

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### ARECA LUTESCENS

3 plants, 5-in. pot, 18 to 20-in. high, per 100, \$40.00  
3 plants, 10-in. pot, 48 to 50-in. high, each, 4.00  
3 plants, 8-in. pot, 40 to 48-in. high, each, 2.50

### COCOS WEDDELIANA

1 plant, 4-in. pot, 15 to 18-in. high, each, .50  
1 plant, 5-in. pot, 24-in. high, each, .75  
1 plant, 5-in. pot, 30-in. high, each, 1.00

### KENTIA BELMOREANA

2 1/2-in., 3 leaves, 10 to 12-in. high, per 100, \$20.00  
3 in., 4 or 5 leaves, 15 to 18-in. high, per 100, 25.00  
5-in., 4 to 6 leaves, 20 to 24-in. high, each, 1.00  
All measurements from top of pot.

JOSEPH HEACOCK, WYNCOTE, PHILA., PA.  
Mention American Florist when writing.

### CAN YOU USE ANY

Lantana Borbonica in 4-in. pots at... 25 cents each.  
Cocos Weddeliana in 3 in. pots at... 20 cents each.  
Vincas, fine plants... 8 cents each.  
Dracenas at... 25c, 35c and 50c each.  
Nice stock Rubber plants.

If you can, send cash with order to

THE F. R. WILLIAMS CO.

WHOLESALE FLORISTS  
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60 Huron Street, CLEVELAND, O.

## FOR DECORATION DAY And School Closing

Flower Baskets, Wire Designs, Wheat, Doves, Immortelles, Tin Foil, Paper, Sphagnum, Green Moss, Stakes, and in short, "All Florists' Stock in Season." ❀❀❀❀

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Cannas...

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## Kentia Palm Seeds

Fresh Seeds of Kentia Belmoreana and Forsteriana by the case of 5000 Seeds received direct from Australia. Price \$17.50 net cash, F. O. B. New York. Prices for large quantities on application.....

Australian Palm Seed Co.

ROOM 52. ❀❀❀

90 Nassau Street, NEW YORK.

**American Beauty and other Rose Problems.**

ED. AM. FLORIST:—I would like your advice on running a house of American Beauties a second year in shallow benches. How shall I treat them in houses 20x100, short span to the south, benches on each side of the aisle 3½ feet wide with walks 2 feet wide next to the walls? What distance from the glass should the benches be? What distance from the bottom of the benches should the steam return pipes be? I have been troubled this season in houses built as I have stated, in each of which there is a 2-inch supply pipe overhead and five 1-inch returns under the extreme outside edge and 2 feet below each bench. The back two rows of plants have seemed to suffer from too much heat.

X. Y. Z.

So far as my experience and observation goes I should say that the few attempts made at carrying over to the second year American Beauties on shallow benches has been anything but satisfactory, and for that reason I do not advise trying it on a very extended scale. The reason we have not been more successful may be attributed to our ignorance, perhaps, rather than to the variety itself. Experimenting with carried-over Beauties, I have allowed the plants a short season of rest, and then have lifted, pruned, and replanted in fresh soil, and usually all through the fall they would look fine, but they did not hold out through the winter, the tendency being to produce nothing but quantities of short stemmed blooms. It may be that they would do better if simply ripened off, as recommended for other roses, for a month or six weeks during the latter part of June and July, pruned, and instead of lifting, given a liberal top-dressing of fresh soil and started up slowly the same as with a house of hybrid roses. The description given of the arrangement of the benches and piping does not leave the matter very clear. If the benches are only 3½ feet wide there must be at least three of them in a 20-foot house, otherwise too much space is given up to walks. A house of this size should allow three benches each 1 foot wide, two paths on the sides 2 feet wide, and two center paths 18 inches wide. The south bench should be not more than 2 feet from the ground, the center one 2½ feet, and the north bench 3 feet. For American Beauties the glass should be not less than 5½ feet from top of bench. The arrangement of the steam pipes could easily be improved upon. In the first place, it is a mistake to run a steam main overhead in any rose house, unless it is carried away up near to the ridge, and in that case the heat which it gives off will be lost. Overhead steam pipes are unsightly, they obstruct the light, and are a nuisance generally like a magnet they attract the opening buds only to destroy them, and worse than all they create an atmosphere, close to the foliage, in which red spider rears. I would advise putting the main as well as the returns under the benches. Do not have them in bunches of five they should be spread out evenly all through the house, some under each bench, and about six inches from the ground. It is a mistake to have all the piping on the sides of the house as is sometimes recommended, unless the house is very narrow indeed, any novice can see that with such an arrangement it will be impossible to have the same temperature through the house on a very cold night. If plants near the pipes will be allowed to frost before the hot air can

be driven into the center. I believe that eight pipes properly arranged will do better work than will ten of the same size when hung on the sides of the house.  
ROBT. SIMPSON.

Madison, N. J.

The Morris County Gardeners' and Florists' Society held its usual monthly meeting in Masonic Hall on May 11, with President Duckham in the chair. Three of Mr. Tilden's rose men, W. Conley, J. Dervin and P. Redding, were proposed for membership. This will bring our family number to sixty.

The florist side of our house is keen on the value of co-operative purchasing of supplies. Some time ago a committee was appointed to look into the scheme, and interview all members desirous of participating. P. Conley, as chairman of that committee, reported that they had met with every encouragement, and hoped to have the matter on a substantial working basis by next meeting.

The monthly exhibition committee reported the completion of the schedule, which was read, discussed and adopted. It was decided to award to each successful competitor at the end of the year a silver medal bearing the society's coat of arms. A Herrington moved that the exhibits at each meeting be divided between All Souls and Memorial hospitals, Morristown. The motion was carried unanimously. John Davis delivered a most interesting and practical paper upon the "Cultivation of the Gloxinia," having fine specimens on hand to exemplify the process advocated. The subject was well received and much discussion followed, a sincere vote of thanks being tendered Mr. Davis for his carefully prepared essay. Mr. Duckham exhibited a beautiful collection of flowering shrubs; A. Herrington, wild flowers; J. Robertson, gloxinias; C. H. Atkins, megaseas and tulips.  
C. H. A.

**Mrs. Robt. Garrett**  
NEW PINK FORCING ROSE  
Winner of 6 certificates, medal and silver cup, \$3.50 per doz., \$25.00 per 100. A fine stock of young chrysanthemums and carnations. Send for trade list describing above in detail.  
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**H. P. ROSES**  
FROM 2 1-2 INCH POTS.  
Strong, thrifty, well established plants. General price \$4.00 per 100. Extra fine lot of Crimson Ramblers.  
**Jackson & Perkins Co.**  
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**ROSES..**  
2-in. per 100 3-in. per 100  
**Am. Beauties .. \$5.00**  
**Perle . . . . . \$2.75 4.50**  
**Bridesmaid ... 2.75 4.50**  
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PLEASANT HILL, MO.

**Memorial Rose**  
(Rosa Wichuriana)  
Strong field-grown plants,  
\$50, \$75 and \$100 per 1000  
**SAM'L C. MOON,**  
MORRISVILLE, Bucks Co., PA.

**2-YEAR-OLD ROSES**  
from 4 in. pots in variety, \$6.00 per 100.  
**CARNATIONS, \$2.50 per 100 from 2½-inch pots, Scott, Parlia, McGowan;**  
also all young roses and general stock.  
**THE NATIONAL PLANT CO.**  
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**Do You Need Young Rose Stock**  
for planting, out of 3-in. pots? A dollar more on the hundred is nothing if you get better stock. Send 5c or \$1.00 in stamps for samples of what you want to  
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Mention this paper. ....PEKIN, ILL.

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Am. Beauties, 3 inch at \$5.00 per 100. Not cullings, but clean, strong, well grown stock and guaranteed free from all disease.....  
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**ROSES** Strong healthy plants from 2, 2½ and 3-inch pots at \$3, \$4 and \$6 per 100. Perle, Sunset, Brides and Maids, Goutier, Pink and White La France, Siebrecht and Nor. Am. Beauty, strong 3-inch, \$8 per 100. **Colons and Verbenas, \$2.50 per 100; \$20 per 1000** **IRISH JUNIPERS** for transplanting, well rooted 4 to 6 inches. Sample and prices on application  
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**AMERICAN BEAUTY**  
Fine young plants, healthy and true. 2½-inch pots, \$8.00 per 100. \$70.00 per 1000.  
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**ROSES**  
A few varieties left, fine 2½-inch forcing stock.  
**BRIDE** } \$2.50 per 100  
**BRIDESMAID** } \$2.00 per 1000  
**AM. BEAUTIES, \$5.00 per 100; \$45.00 per 1000**  
Cash must accompany all orders.  
**The Exotic Nurseries**  
J. B. HEISS, & DAYTON, OHIO.

**ROSES** OWN ROOTS, DORMANT, FIELD GROWN  
IN COLD STORAGE IN CHICAGO.  
No. 1, 2 in 4 feet, cut back to 2 feet  
Yellow Rambler (Aglata)  
Hybrid Perpetuals,  
Mosses, Hardy Climbers and Madam Plantier  
These plants are clean, strong and well shaped. For application, Address  
**W. I. HIKI S, Manager,**  
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**ROSES** BRIDES AND BRIDESMAIDS,  
2½-inch pot at \$1.00 per hundred.  
**H. ROY DAVIS, MORRISON, ILL.**



Cleveland, O.

There is some business doing but there are always plenty of flowers to do it with, and some to spare, except in the case of carnations, which often run short, especially when dependence is placed upon local production to supply the demand. A good many growers have either thrown out their stock or, if not that, their crop is not yet fully in. Roses are plentiful, although the sun is beginning to affect their size. Sweet peas are in abundance and sell very well.

Acting upon the petition of Thomas Callahan, Judge Dissette has named Thomas Kelly as receiver for Erhardt & Co., florists, at 341 Prospect street. Callahan alleges that he went into partnership with Laura E. Erhardt on condition that each should put in \$500. He declares that he put in his money but that she did not; that she took charge of the business and from it has made a good living for herself and family, while he has received nothing on his investment. He asks the court to settle up the business and return him his \$500.

We were honored lately by a flying visit of President W. F. Gude and Secretary W. J. Stewart, of the S. A. F., who were returning from Omaha, where they had been to look the ground over in preparation for the annual convention in August.

Plant Labels.

Every gardener has been annoyed times without number at the loss of the labels of valuable plants by reason of the rotting away of the thin wooden labels ordinarily used, or of their becoming illegible. Nearly all of the indestructible labels in use are either expensive or require too much time in preparation.

For cheapness and convenience combined we have found nothing so good as sheet zinc cut to the proper form, using a chemical ink for the writing. The ink is made by dissolving a few crystals of chloride of cobalt in water, and can be used with a clean steel pen. The writing is allowed to dry without blotting and makes an indelible black stain. Labels of this kind have been buried in the ground for over four years and remained perfectly legible. These labels can be attached by tacks or copper wire to orchid cribs. They can be bent into hoop form and forced down to "straddle" the edge of a pot, or can be used with the seed, inserted in the soil as an ordinary label. For outdoor use they can be attached to a piece of heavy wire; telegraph wire answers nicely. The wire is forced into the ground leaving the label suspended or lying on the ground or buried in the ground, as desired.

A very convenient form for tree labels is made from a strip of zinc twelve inches long and one inch wide. This is cut diagonally from a point one inch from one end to a point on the opposite side one inch from the other end, this making two labels with one end square for the inscription and the other tapering to a point. The tapered portion can be twisted around a branch of the tree and will not strangle it or cut the bark, as it expands with the growth of the tree.

SAN FRANCISCO, CAL.—The California Floral Society gave its annual flower show May 12 to 14. There were forty exhibits and \$400 was given in premiums. The exhibition was largely attended, universally admired and the most successful in the history of the organization.

ORDER AT ONCE AND SECURE STOCK

CHRYSANTHEMUMS

Rose Owen, J. H. Woodford, Dorothy Devens, G. F. Atkinson, Golden Trophy, T. B. Morse, Pres. McKinley, Western King, The Herriott, Surprise, Marcia Jones, Elvena, Miss Helen Wright, Belle of Castlewood, Chito, C. W. Ward, Mrs. S. T. Murdock, 75 cts. per dozen; \$5.00 per 100. Glory of Pacific, Maud Dean, Mrs. R. Crawford, W. P. Raynor, Modesto, Lenawee, Pride of Castlewood, Bonnaffou, Ivory, Ruth Ellis, 50 cts. per dozen; \$3.00 per 100. Frank Hardy, T. H. Spaulding, Mrs. O. P. Bassett, The Yellow Fellow, Madeline Pratt, Mrs. C. H. Peirce, Merry Christmas, 35 cts. each; \$3.00 per dozen. Snow Queen, Pennsylvania, 50 cts. each; \$5.00 per dozen. W. H. Chadwick, \$1.00 each; \$6.00 per dozen.

CARNATIONS

Jno. Young, Bon Tou, Mrs. Jas. Deau, White Cloud New York, Empress and Evelina, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. C. A. Dava, Mayor Pingree, \$5.00 per 100. Storm King, fine from soil, \$2.00 per 100; \$15.00 per 1000.

CANNAS

Pres. McKinley, Defender, Pres. Cleveland, Tarrytown, 60 cts. each; \$5.00 per dozen. Ami Pichon, Paul Marquant, J. D. Cabos, L. Balley, Floreuce Vaughan, \$2.50 per 100. Eldorado, A. Billard, Count de Bouchard, \$4.00 per 100.

For full description send for our 1898 wholesale list.

THE COTTAGE GARDENS, Queens, N. Y.

CANNAS In extra fine strong plants from 4 inch pots CANNAS

Duke of Marlboro, Defender, Pres. McKinley, 50 cents each; \$4.50 per doz. Gloriosa, Philadelphia, Alemannia, America, \$2.00 per doz.; \$12.00 per 100. Flamingo, Pillar of Fire, Robert Christie, \$1.75 per doz.; \$10.00 per 100. Columbia, Mrs. Fairman Rogers, Golden Queen, \$1.25 per doz.; \$7.00 per 100. Alphonse Bouvier, Austria, Chicago, Egandale, Florence Vaughan, Italia, J. D. Cabos, Mme. Crozy, Paul Marquant, Queen Charlotte, Rosalind at \$6.00 per 100.

CHRYSANTHEMUMS

All the new and standard varieties in A-1 stock ready for planting, including Alice F. Carey (pink), Dolores (yellow), Miss G. Vanderbilt (white), Robt. G. Carey (white), Spotswood (yellow), Frank Hardy and Mrs. H. Weeks, all at \$20.00 per 100, net, for cash.

JOHN N. MAY, - SUMMIT, NEW JERSEY.

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Shrimpton, Niveus, Golden Wedding, Robinson, Philadelphia, Dailedouze, Ivory, Yellow Queen and others, 2 1/2 and 3-inch pots, \$2.50 per 100.

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Mrs. A. F. Wienold

McDONALD & STEELE, Crawfordsville, Ind. 20c each, \$1.50 per doz.; \$10.00 per 100.

Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

NATHAN SMITH & SON

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Specialties ADRIAN, MICH.

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CARNATIONS  
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CORRESPONDENCE SOLICITED

2000 SMILAX

from flats, by mail 50c per 100; \$1.00 per 1000. 100 fine Perle Rose plants, 3 1/2-inch pots, for \$4.50. Tomato, cabbage and sweet potato plants, 15c per 100; \$1.00 per 1000. ALONZO ULSH, Box 429, Wabash, Ind.

West Islip Greenhouses

MARIE LOUISE VIOLETS

Rooted Runners, \$4 per 1000. Cash with order.

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THE AMERICAN FLORIST'S COLOR CHART

is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.

PRICE IS CENTS POSTPAID.

AMERICAN FLORIST CO., 322 Dearborn St. Chicago

**Piping.**

ED. AM. FLORIST:—How much 2-inch pipe will it take to heat a short-span-to-the-south house 29x100 to 50° in zero weather; plan enclosed. A. B. S. Co.

A well built house 29x100 feet can be heated to 50 in zero weather by twelve lines of 2-inch pipe, using hot water; but if the temperature goes much below zero it will be more economical of fuel to have one or two more pipes, unless the house is to be used for crops that will not be injured by an occasional slight drop in temperature. I cannot judge from the plan whether the beds are solid or raised. It would be advisable if the benches are raised to have three or four pipes on each side wall and the others distributed under the benches to provide bottom heat. In the case of solid beds it would be well to run two lines of pipe about three feet apart and eight inches below the surface of the soil in the beds. When used with solid beds at least ten lines of pipe will be required in addition to those used for bottom heat. L. R. TAFT.

**FINE PLANTS**  
**VERBENAS**  
 IN BUD AND BLOOM.  
 Many Fine Varieties added to Our Collection.  
 Best Mammoth ..... per 100, \$3.00; per 1000, \$25.00  
 General Collection ..... 2.50; 20.00

**ROSES.**  
 American Beauty, 3-inch pots ..... per 100, \$10.00  
 Bridesmaid, Bride, Perle, Watteville, Meteor, Bon Silena, Wermet, La France, Sunset.  
 Price from 2 1/2-inch pots, \$5.00 per 100; \$40.00 per 1000.  
 Ever-blooming and Polyantha, in bud and bloom, from 3 1/2, 4 and 5-inch pots, \$10.00, \$15.00 and \$30.00 per 100.  
 Hybrid Perpetual, in bud, from 3-inch pots, strong, \$2.00 per 100.

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 20 fine varieties from 2 1/2-inch pots, \$5.00 and \$4.00 per 100. Send for list of varieties.

**MISCELLANEOUS PLANTS.**  
 Ready for immediate sale.  
 Anthemia Coronaria, from 2 1/2 inch pots..... \$3.00  
 Alternanthera, all leading varieties ..... 3.00  
 Ageratum, white and white ..... 3.00  
 Carnations, from 4 inch pots, fine stock ..... 12.00  
 Coleus, leading sorts 2 1/2 inch pots ..... 5.00  
 Ceraniums, double and single, 4-inch pots ..... 8.00  
 Heliotrope, from 4-inch pots ..... 3.00  
 Ivy, fine variety, 2 1/2 ..... 3.00  
 Hydrangea Otakeda, 5 in. bushy ..... 2.00  
 Fuchsias, double and single, 3 1/2-inch pots ..... 3.00  
 Moonflower, 2 1/2-inch pots ..... 1.00  
 Pelargoniums, 2 1/2 inch pots ..... 6.00  
 Salvia Splendens and Bedman, 2 1/2 in. pots ..... 1.00  
 Vinca Variegata and Eleana 4 inch pots ..... 10.00  
 Violets, Marie Louise, 2 1/2 inch pots, \$25.00 per 100, \$1.00 per 100.  
 Pansies in bud and bloom \$2.00 per 100; \$15.00 per 1000.  
 All the above from stock in condition for immediate sale.

**WELL ESTABLISHED CARNATIONS FROM SOIL.**  
 C. A. Dana ..... \$5.00  
 Mrs. McCurney ..... 3.00  
 Harrison's White ..... 2.40  
 Wm. Scott ..... 2.00  
 Lizzie McCowan ..... 2.00  
 Portia ..... 2.00  
 New Trade List on application.

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 4000 Marie Louise Violet Plants.  
 This year's cleanest quality largest flowers \$4.00 per 100. Less price if you take the whole lot.  
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	Per doz.	Per 100
MME. VIBERT.....	\$1.75	\$12.00
VICTOR.....	1.75	12.00
MRS. R. SANDIFORD.....	2.50	20.00
MRS. P. CARPENTER—fine double white.....	2.50	20.00

Also a fine assortment of 4-INCH GERANIUMS in bud and bloom at \$1.00 per dozen; \$8.00 per 1000. Cash with order. Address

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**Princess of Wales Violet...**  
 The Best Money-Maker Among Violets.  
 Strong 2 1/2-inch pot-grown plants ..... \$5.00 per 100.  
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 SEND FOR REASONS WHY THEY ARE THE BEST.  
 ...SEED... ...PLANTS... ...SMILAX...  
 Ready now at \$1.50 per 1/2 oz. September to January; 75c per 100; \$4 per 1000.  
 Sample plants for 10 cents. \* \* \* **ALBERT M. HERR, Lancaster, Pa.**

**CARNATIONS**  
 STRONG, HEALTHY ROOTED CUTTINGS  
 Ready Feb. 1st and Later

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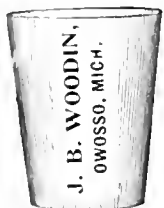
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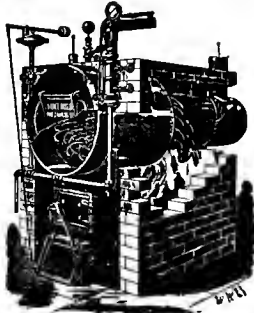
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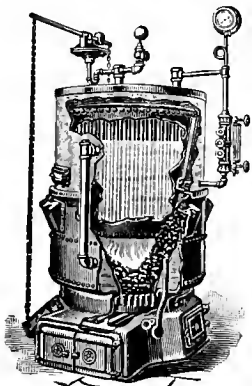


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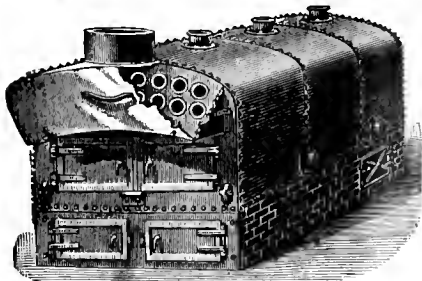


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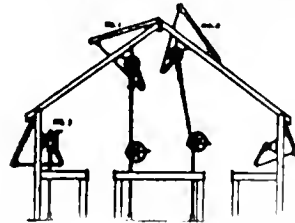
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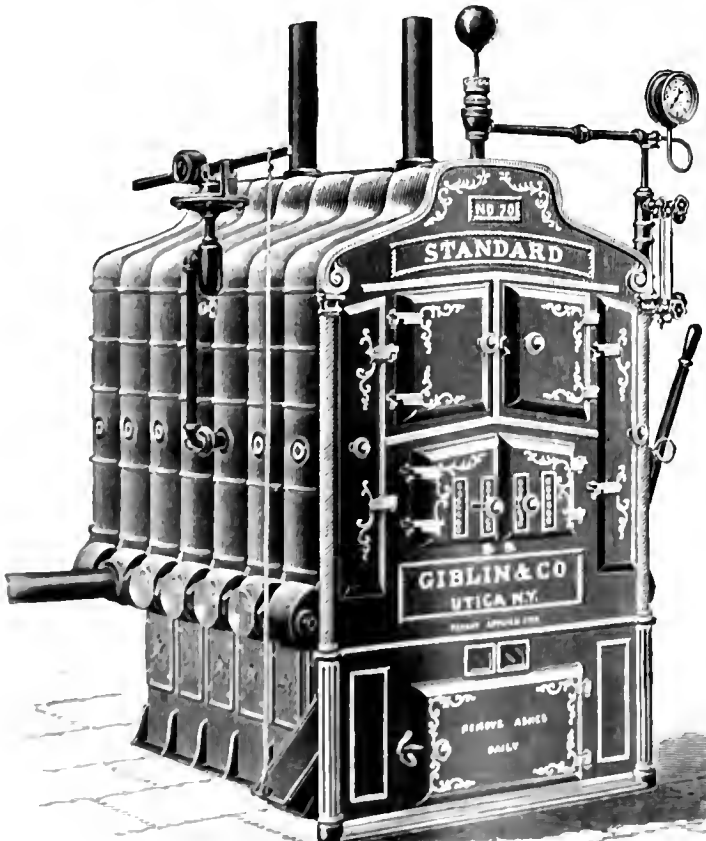
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# THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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## THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS AND  
ORNAMENTAL HORTICULTURISTS.

OFFICERS—Wm. F. GUDE, Washington, D. C., president;  
A. DONAGHUE, Omaha, Neb., vice-president;  
W. J. STEWART, 67 Bromfield St., Boston, Mass.,  
secretary; H. B. BEATTY, Oil City, Pa., treasurer.  
The fourteenth annual meeting will be held at Omaha,  
Neb., August 16-19, 1898.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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WARSAW, IND.—Louis Lentze has restocked the Lakeside greenhouses with the finest assortment of plants ever shown in Warsaw.

DETROIT, MICH.—August Kulschke, 68 years old, was caught at four o'clock in the morning of May 18 while carrying bedding plants stolen from a West boulevard mansion.

WEST BROOKFIELD, Mo.—Samuel Wass, well known as a florist, made his debut in operetta on May 18. The entertainment was given in the town hall and was a great success.

### Herbaceous Plant Notes.

The month of May brings out a great number of showy hardy flowers and the borders are becoming more interesting every day. Where mixed borders have been planted judiciously, spring bloomers evenly distributed among the summer and fall flowering subjects, there will be no lack of cheerful and lively effects from now on. The early flowering material to draw upon is so very large that any soil, situation or exposure may be suited by proper selection. High dry ground can be made a success as well as the low damp places, and between the two extremes we may plant almost anything without discrimination, though some of the plants will require the protecting shade of their taller neighbors in mid-summer, and therefore a knowledge of their special requirements is indispensable, for if we should place the helianthemums, for instance, in a shady nook we could not reasonably expect them to bloom with the same profusion, nor would their growth be so compact as when planted in a fully exposed position.

Among the many things in bloom at present I may mention the grand *Doronicum plantagineum* excelsum with its large well formed daisy-like yellow flowers; it is a most profuse bloomer and lasts for a long time, often maturing another fair crop of flowers toward or late in the fall. This is the tallest of the doronicums to my knowledge; under favorable conditions old clumps may attain a height of three and a half to four and a half feet, but in ordinarily good soil we seldom see them more than three feet high. *Daphne cneorum* is fully out with its numerous bright pink flower heads, which are delicately fragrant; it does not really come under the head of herbaceous plants, being hard wooded and shrubby, but is in general use in all borders of any pretension. The plants spread out, but never grow tall with age. Propagation is effected by cuttings of the half ripe wood or by layers; it is slow work at best unless you have numerous large old stools to work from. The plants furnish a full crop of flowers regularly every spring and early summer and then bloom off and on, but more sparingly, up to late in autumn. *Viola cornuta* has started to blossom quite profusely. The blue varieties are used in many sections in place of violets when the latter are past, and though the flowers of the horned violet are a trifle larger than the best of our single large flowering sorts, and more pansy-like in shape, they answer admirably for the purpose. When planted in slightly moist ground and partly shaded from the hottest sun, we may pick flowers from them

continuously until fall, but in a dry and very sunny exposure they will stop blooming during the hot weather in July and August. The pure white variety is equally desirable, and all are excellent plants for the border when slight shade can be provided for them, otherwise they are only effective in the early part of the summer and again in autumn.

The various kinds of *trollius* are very conspicuous at present with their bold globular yellow flowers. *T. Europæus* is pale yellow and the stems generally grow about one and a half feet high in ordinary garden soil; the flowers are very lasting. The plant is well worth growing for cutting, as also is the deeper colored *T. Asiaticus*, which in other respects resembles the first named. A variety which we received from a European grower some time ago under the name of *T. giganteus* has larger flowers and is a vigorous grower. The earliest *lychnis* with us is the elegant *L. alpina*, only about six to eight inches high, but well set with a great number of its many flowered bright pink flower heads. This useful plant is not met with very often, though easy to grow in dry and sunny places, while moisture and dense shade is detrimental to its welfare. It forms a nice little compact tuft of small narrow foliage and is evergreen; the flowers will last well into summer and the plant looks neat and clean throughout the year. *Linum perenne* is coming on fast; its lovely blue saucer-shaped flowers are very numerous every morning, but they close up after midday or when it rains, only to reopen again in the same profusion the following day. Its habit is graceful, light and airy, stems thin and wiry with narrow short linear leaves; the flowers are of no use for cutting, but no flower border should be without a few of these plants; they are always satisfactory and require no special care, doing well in any position if not too densely shaded, attaining a height of about one foot.

*Stellaria Holostea*, with a profusion of starry pure white flowers is conspicuous on the rockery and in the border; its densely matted growth hides the ground at all times and the flowers are freely produced in succession for about two months in spring. *Armerias* in a half dozen varieties are out too, mostly pink shades, a few whites among them; we can ill afford to do without any of them, for all have distinct and desirable qualities of their own. *Iris pumila alba*, with pure white standards, and *I. pumila aurea* are somewhat later with us than the blue varieties, but are well advanced now; both are valuable in the border, especially the last named, the color being a very deep golden yellow and the flowers per-

fectly shaped; growing a little taller than the early blue, they are used extensively as cut flowers. *Ucnularia grandiflora* with its long pendulous pale yellow flowers, which are kept in constant motion by the slightest breeze, is an interesting object when planted in large clumps; young plants with two or three stems are pretty, but do not create the same effect. These flowers are borne on the stout arching shoots and spring from the leaf joints on the upper part of the leafy young growth. Half shade is desirable for them, but open places will answer for them if the soil is not excessively dry. The rock roses (*helianthemum*) are just now beginning to be attractive and will be so throughout the season; every day will bring a new crop of the small rose-like blossoms, white, yellow or pink, in various shades. The plant is shrubby, but very dwarf in habit and can withstand the dry heat in full exposure; the small foliage is green in winter and helps to keep up a cheerful appearance in the border or on the rockery, wherever we may happen to introduce them. They are propagated by cuttings in August.

The double white *Ranunculus aconitifolius* fl. pl. is one of the most useful plants of its genus for cutting, though the double yellows are also very serviceable. They are double to the very center and bloom freely in May and June on long branching stems, varying in height according to soil or situation from ten inches to two feet. The plants should not be disturbed too often, old clumps in fairly good soil giving a great mass of bloom year after year and growing to a good height, the flower stems being long, while newly divided plants are a great deal shorter of stem. Fair maids of France and white bachelor buttons, they are called in different sections of the country. The double buttercup or yellow bachelor's button, *R. acris* fl. pl., is also in flower; it grows usually about one and a half feet high and is not so sensitive when divided and transplanted. All *ranunculuses*, of which there are quite a number of species, do best in rather moist soil, but an ordinary border will answer quite well for them.

J. B. KELLER.

#### Notes on New and Rare Plants.

##### DRABA BRUNIFOLIA.

We have in this a very nice dwarf plant about one inch high, which is well adapted for borders. The bright yellow flowers, three-eighths of an inch in diameter, appear in such large quantities that almost nothing of the leaves is to be seen when the plants are in full bloom. The single flower lasts, as I observed, more than one week. The flowers appear in April. The perennial plants are raised from seed, which should be sown in June, and the plants will then bloom next spring for the first time. The plant is also adapted for rockeries.

##### CRANTHE CRUCIFERA.

This fine tuberous plant flowered in January in the open air. It attains a height of about four inches. Large tubers often produce twenty or thirty flowers at once. The flowers are best compared with those of *Helleborus niger*, but they are a little smaller, bright yellow and delightfully fragrant. Immediately beneath the single stem of a flower there is a fan-like rosette of three deeply incised leaves, which are so exactly recurved, while the flowers are more or less bell-shaped. They are fully expanded only when the sun shines. The plant is nearly allied to *Crantus cordata*, from which it differs

by larger flowers and finer incised leaves. It was brought into commerce last year by Mr. Siehe, at Mersina, in Asiatic Turkey.

##### ANTHURIUM GUSTAVI.

This is far the most majestic of the anthuriums, as the leaves measure more than three feet in diameter in both directions. It grows best in a damp house in turfy loam, where it forms leaf after leaf at short intervals. But it is also grown easily in a much cooler temperature, and is a very decorative indoor plant. I have it without any protection in my room for more than a year, where it grows very satisfactorily, though the leaves do not attain their full size. The plant is propagated by cuttings, which will be easily obtained if the head of the plant is cut off.

##### STERNBERGIA MACRANTHA.

Mr. Siehe has given us in this recent introduction another new plant of the highest value for cut flower purposes. It is quite hardy, and the flowers appear from the end of October until New Year's. They are as large as those of a good tulip, but of a shining yellow color. Cut flowers remain quite fresh, without water, for five days. The bulbous plant requires a very well drained soil, and to obtain flowers for cutting purposes should be grown in frames, for it is necessary that the plant be kept quite dry, without any water, and fully ex-

posed to sunshine during summer. The plant is quite hardy. The allied *Sternbergia lutea* has flowers of only half the size of this plant. Udo DAMMER.

##### ACALYPHA SANDERL.

This was one of the most sensational exhibits at the recent Ghent, Belgium, quinquennial exhibition. It is described by Dr. Masters as one of the most striking and ornamental plants he had ever seen. Of branching habit, the branches spread widely and throw down long, bright crimson spikes like those of love lies bleeding, twelve to eighteen inches in length, beneath broad ovate leaves, in a most effective manner. To see a group of these plants at Messrs. Sander's, where one can look up at these crimson tassels, is to experience a sense of enjoyment not to be forgotten. This plant was collected by Micholitz in the Bismark Archipelago.

##### LEEAE ROEHRSIANA.

This is one of the finest plants of the genus, and will make an excellent addition to the group of trailing plants. The plant has been named in honor of Mr. J. Koehrs, Rutherford, N. J. Dr. Masters describes it as a tropical climber with pinnate foliage sixteen inches long; each pinna very shortly stalked, six and one-half inches long and two and one-half inches wide, glaucous, cordate, oblong, acuminate and coarsely crenate. The young



LEEAE ROEHRSIANA

leaves are bronze green, and the stem is marked with raised green spots. This plant is allied to *Cissus*, and is found in the hotter parts of India, Malay and Philippine islands and Australia; not only has it this wide distribution, but it is exceedingly variable and therefore plentifully endowed with synonyms, of which *L. Roehrsiana*, Hort., Sander, is one. It is easy of propagation and rapidly attains vigorous proportions. Small plants bloom more easily, and in bush form it is useful for decorative purposes and cannot be equalled. As a climber its spikes are very attractive, lasting several weeks in a fresh condition. The foliage is of clear, shining green, and the spikes bright crimson.

*ACALYPHA GODSEFFIANA.*

The beautiful variegated foliage of this plant will make it exceedingly popular. The coloring in small plants is very marked. Specimens will prove invaluable for decorative purposes. According to Dr. Masters it is a low growing shrub of dense, bushy habit, with shortly stalked, ovate or ovate-lanceolate leaves, slightly cordate, acuminate, coarsely toothed, teeth incurved; disk three and one-half to four inches long, two and one-quarter to two and one-half inches wide, green, with a few thinly scattered, rather long white hairs on the upper surface and along the cream-colored or white margins; petiole three-quarter of an inch long, densely covered with felted seta. Flowers and fruit not seen. The cream colored marginal variegation gives this plant a very ornamental appearance. Although the flowers are not known, there can be little doubt as to the affinities of this plant, and indeed, there is in the Kew herbarium a specimen which may be the green form of this species. This has been referred with doubt to *A. Pancheriana*, of Baillon, from which, however, it differs widely as also form *A. obovata*, which has retuse, red-edged leaves. Our present plant, which appears to be very ornamental, was collected in New Guinea by Micholitz.

A. DIMMOCK.

**Forcing Strawberries.**

I would like to get some information through the *AMERICAN FLORIST* with regard to growing and forcing strawberries in the greenhouse in winter. Should the runners be started in pots like violets, or would it be better to begin with old plants, potting or planting them in the fall? Please let me know about the best method of culture, including best forcing varieties, most suitable soil, temperature, with such hints as are likely to be useful to a beginner in the forcing of strawberries. H. L.

In forcing strawberries the plan pursued at this place has been to plunge 3-inch pots along the rows of spring set plants, leading the runners into the pots in July or early August. When the plants have filled the pots with roots they should be taken up, shifted to 6-inch pots and these pots plunged in coal ashes or other similar material, giving them the necessary attention through the season and ripening them off before freezing weather sets in. They may be removed indoors at any time through the winter, subjecting them at first to from 40° to 45° and increasing the temperature gradually until at the time of flowering they will be held at 65°. When the fruit has set, liquid manure should be given twice each week until time of coloring. For ease of forcing and numbers of medium sized fruits the Beder Wood has proven the best; for



*ACALYPHA SANDERI.*

large dark fruits the Glen Mary is probably the best. C. E. HUNX.  
Ithaca, N. Y.

**American Carnation Society Reports.**

*ED. AM. FLORIST*:—There appeared in your issue of May 14 last (pp. 1229-30), certain remarks touching my capabilities as a stenographer; and as these remarks are calculated to damage my reputation as such, I beg to ask that you publish the following explanation so as to set the matter right before your readers, so far as I am concerned.

Your correspondent, "E. L.," in writing on "The American Carnation Society," in the pages of your journal just cited, says: "When the society had agreed to meet in New York to complete its organization, the executive committee decided to secure the services of an expert stenographer, so that as complete a report as possible of the meeting would be given to the members who were unavoidably absent, to be published in the proceedings. A mistake, however, was made in the selection of the performer, for the merest tyro present could have made as complete a report from memory a month after the meeting had adjourned as was done in this case."

I am not aware whether your correspondent is cognizant of the agreement

made with me, or the services expected of me in connection with the meeting in question. When Mr. C. W. Ward, who was then treasurer of the American Carnation Society, employed me at that time, the understanding was that I was simply to make a note of the minutes of the meeting, to relieve the secretary; *not to give a verbatim report of the proceedings*—the latter a work which, although I considered myself quite capable of undertaking it, was one that could not have been reasonably expected for the remuneration agreed upon and paid. Therefore, according to agreement, I furnished a summary of the doings of the society on that occasion; and I may add that that summary was not wholly utilized by the secretary.

Regarding the quality of my work at that time, I quote from a letter received from Mr. Ward, under date May 20 as follows: "Have never heard any dissatisfaction expressed with the minutes of that meeting, save by Mr. Lonsdale, who was then the president, and he thought it would have been nice to have had a verbatim report of the whole proceedings of the meeting. This, however, was an after and not a forethought. So far as I know there is no reason to criticise the work you did at that meeting."

In support of my statement as to my

competency to give a full account of what transpired at the meeting, I will only quote your correspondent's own language in his article in your paper referred to. He says: "The trade papers published *everything*, good, bad and indifferent that was done at the meetings." (There was only one meeting as I remember.) For one trade paper, at least, I assume the responsibility of this comprehensive report.

But it is with reference to the meeting of the American Carnation Society, held at Chicago in February last, that I desire to write more particularly. Your correspondent states: "The published proceedings of the last meeting were received last week, and the improvement in the report is quite noticeable, at least over that meeting which was held in New York in November, 1891." These remarks convey the impression that the report of the Chicago meeting is defective from your correspondent's standpoint, and as I was the "performer" on that occasion, too, I ask that you give publicity to the under-noted letters of W. N. Rudd, Esq., president, and A. M. Herr, Esq., secretary, of the American Carnation Society, with respect to the services rendered by me relative to the report of the Chicago meeting of the society:

ALEX. WALLACE, Esq., New York.

DEAR SIR:—Yours 16th to hand, and I have pleasure in saying that your work in reporting the recent Carnation Society proceedings was eminently satisfactory. May 19, 1898. (Signed) W. N. RUDD.

MR. ALEX. WALLACE, New York.

DEAR SIR:—Your work as stenographer for the American Carnation Society has been very satisfactory to me as secretary, and as I have heard no complaint from any member of the society it has evidently been equally so to the society as a body. (Signed) ALBERT M. HERR. May 17, 1898.

As my association with the latest report of the American Carnation Society is well known to this trade, I ask you to please insert this communication as a matter of justice and fairness.

ALEX. WALLACE.

New York, May 23, 1898.

#### Chrysanthemum Notes.

It is now time to begin planting chrysanthemums, especially the early varieties and those intended for exhibition purposes. The soil should be well mixed and of a live and pliable nature, using only well rotted manure as a fertilizer. With regard to adding bone meal in mixing the compost heap, we have given that up, applying the meal after the soil is in the benches, and from close observation have found this plan to yield much better results.

The meal is applied at the rate of about twenty-five or thirty pounds to 100 feet of bench four feet wide, thoroughly mixing it with the soil by means of a spading fork, after which the compost is made as firm as possible. This solid condition of the soil is quite essential to the production of fine blooms of good depth and keeping quality.

If notes were made last season of the habit and growth of the different varieties, now is the time to study them out; by so doing lots of time and labor will be saved later on. It is a good idea to plant all the varieties of the same habit and growth and time of flowering together so far as possible. Our first plantings will be of the early kinds, of which there are few to choose from compared with the number of mid-season varieties.

In the selection of these early sorts it is well to take into consideration the fact that a great many of them do not come up to the later ones as regards size or color, and must, therefore, be out of the way before such varieties as Major Bonaffon, Ivory or Mrs. Robinson come on the market. Unless there is a big outlet for the flowers, one should not plunge too heavy with sorts like Lady Fitzwigram, Merry Monarch or Mme. Bergmann.

Among early whites the first to mature with us last season was Midge, cut September 28, with stems about two feet in height. It is easily grown with fair sized flowers but the foliage is entirely too heavy to admit of planting close enough to be profitable. Geo. S. Kalb was ready to cut October 4 with a height of about three feet. The stock of this was grown from April struck cuttings, and to get the best results from this variety the cuttings

should always be propagated at this early date.

The stock of Geo. S. Kalb struck in June, though given the same treatment as the earlier cuttings, did not afford nearly such good results. When treated right, this is the best early white we have seen and a great deal better than Mme. Bergmann. Merry Monarch is a loose, spreading flower and has never been thought much of here for commercial purposes, though it may be useful to some on account of its earliness, being ready to cut during the first week of October; it is, however, rather a tall grower.

There are very few early pink varieties of merit to choose from, Elvena and Glory of the Pacific being the best that came under our notice last season. The blooms of both these sorts are of the light pink order and very beautiful unless allowed to remain on the plants too long, when they become very washy in color; they usually flower about October 10.

Yellow Queen is the only yellow variety with us until Major Bonaffon comes in, and when well done and allowed to fully develop before cutting it is a beautiful flower of fine growth and stem. This is another variety which should be grown from early struck cuttings, taking the buds from August 25 to September 1 or thereabouts. It is ready to cut here about October 14. J. E. Lager, H. L. Sunderbruch and Sunclad are all very good yellows, coming in about October 20, but with us Major Bonaffon is about ready by this time, and being much the better seller, we have not grown the others to any great extent.

Henry Hurrell is another early yellow that took our fancy last season; the only thing we had against it was that we could not get the plant to produce stems of sufficient length for commercial purposes; they were barely two feet high with us, but the flowers were extra fine. There has been very little done in regard to bringing out early reds and bronzes, due, no doubt, to the limited demand for blooms of these colors.

It greatly depends, of course, on the treatment given varieties whether or not they arrive at perfection early. At this time they should be well grown, thrifty plants. When transferred to the bench give them full light and ventilation; water only when necessary and then freely; syringe on bright days, mornings and afternoons; keep the plants clear of suckers and side shoots, thus enabling them to throw their entire strength into the development of the main stem and hasten their maturity.

C. W. JOHNSON.

#### Among Chicago Growers.

Hinsdale, sixteen miles west of Chicago on the Burlington route, is one of the most delightful suburban towns in Illinois, and there two of the largest cut flower growing establishments in the west are located. O. P. Bassett commenced business at Hinsdale about twelve years ago, in what would now be considered a moderate way, with 30,000 or 40,000 feet of glass. Six or seven years ago Mr. Washburn secured an interest in the business and the firm name became Bassett & Washburn. Every year large improvements and additions have been made, and they now have over 500,000 feet of glass. Roses have always been their specialty, although they have grown chrysanthemums and for several years have been large producers of Harrisii and general bulb stock.

Until this season they had not attempted much with carnations, but this year they



ACALYPHA GODEFFIANA

had several houses of them, their stock being among the best in the market. The following varieties were grown: Mrs. Bradt, Flora Hill, Mary Wood, Lily Dean, Maud Dean, Mayor Pingree, Jubilee, Wm. Scott and Daybreak. Next year Bassett & Washburn will grow carnations more extensively, having leased for that purpose the Mitchell place of about 34,000 feet of glass, which adjoins their property. It is their purpose to make Bassett & Washburn's carnations the standard of excellence in the market, just as their American Beauties have been the standard of roses, and they will grow from 1,000 to 7,000 plants of each of the following varieties: Flora Hill, Mrs. Bradt, Mary Wood, Mayor Pingree, Jubilee, Painted Lady, Gold Nuggett, Dazzle, White Cloud, Argyle, Armazindy, Evelina, Psyche, Scarlet Lady and Frances Joost. Flora Hill will be their leader. They will also have on trial from 100 to 200 plants of each of the new carnations of this year's introduction.

Bassett & Washburn built a house 35x300 feet especially for smilax and asparagus. The house is much higher than would be required for other purposes and is now planted with 3,000 asparagus and 7,000 smilax. The asparagus is from eight to twelve feet high and so thick are the strings that in many places one can scarcely see through a seven foot border. Two more houses of asparagus will be grown this season. These will be planted on benches and grown to be cut in short sprays to be sold in bunches. About 3,500 plants will be required. Quite a large amount of replanting has already been done for Bassett & Washburn believe planting should be accomplished as early in the spring as is possible. Their young rose stock in pots is in a very vigorous condition. The stock from which they are at present cutting their blooms is clean and healthy, showing not a sign of mildew. Two houses of Kaiserin are remarkably fine. Bassett & Washburn sell all their stock at their wholesale store, 88 Wabash avenue, a very large proportion of it being shipped out of the city.

The Hinsdale Rose Co., although not so large producers as are Bassett & Washburn, are quite a factor in the cut flower trade of Chicago. They have three quite large establishments, two in Hinsdale and one at Downers Grove, a few miles west of Hinsdale. The company owns the old Geo. W. Miller and Paine Bros.' place in Hinsdale. At the former establishment quite a large amount of adiantum is grown, a number of the houses having been built for that purpose. A general collection of roses are all in good condition. One of the novelties to be seen here is a house of Sunset. A few years ago this rose was about as plentiful as Perle, but now it is seldom seen. At the Paine place a general collection of roses are well grown, and here also adiantum is a specialty remarkably well done. A special feature at this establishment is smilax, five houses being devoted to it. Over 15,000 plants are grown. A general collection of bedding plants is also grown. All the stock of the Hinsdale Rose Co., is sold by A. G. Prince & Co., 88 Wabash avenue. J. T. A.

#### The Anthracnose of Ficus Leaves.

During the present week my attention has again been drawn to a leaf trouble of the India rubber plant, *Ficus elastica*. This time the complainant came in person and laid his case before me, which is the same old story of the foliage losing its beautiful green color and turning to a

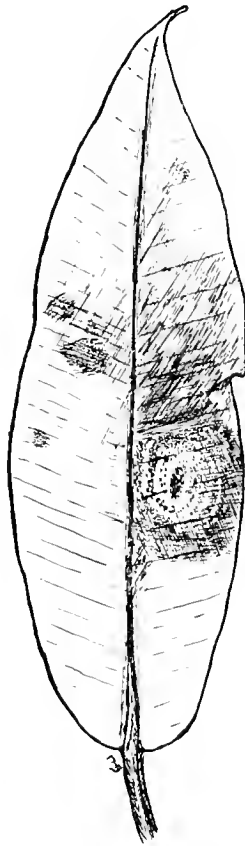


FIG 1

sickly greenish yellow that finally ends in the affected foliage turning brown and becoming dry and distorted. Anything that affects the foliage of a rubber plant is sure to bring ruin, for the chief beauty resides in the luxuriant large thick leaves, deep green in color and glossy upon the surface. It is a serious blemish if any leaf is imperfect in any respect.

The disease in question is due to a fungus of the group known as the anthracnose and belongs to the genus *Gloeosporium*. The same or a similar species (*Gloeosporium elasticæ* Cke and Mars) works upon the crotons, dracaenas, neriums and dieffenbachias, and it is not unlikely that the disease spreads from one or the other of these greenhouse plants. As a rule the leaf shows at first a single patch an inch or so across that is losing its healthy green color and enlarges, and the center finally becomes light brown when the fungus begins to burst through the skin, most frequently upon the under side, and produces small pinkish rifts in the epidermis of the leaf. Fig. 1 is from a drawing of a leaf recently brought to the station by one who was alarmed at the sad plight his ficus was in. In Fig. 2 is seen a small portion of the underside of the blighted part showing somewhat enlarged the nature of the ruptures and the granular exudations of the spores. It is by means of these spores that the fungus is spread from place to place.

Should the reader wish for an illustration of a similar fungus the bitter rot of the apple may be mentioned, which in appearance to the naked eye is not easily distinguished from the one upon the ficus. As a remedy it is written that all affected leaves are beyond cure and should be removed and burned. The variegated variety of ficus is much more susceptible to anthracnose than the ordinary sorts,

and if such diseased plants are grown they may breed the disease for the fully green specimens that might not otherwise be attacked. It is not expected that spraying could ever become popular with such plants as the ones under consideration, for the beauty would thereby be greatly diminished by the coating of the fungicide. It is possible that the whole plant may become infected and then there is little hope of saving it, but when a single leaf is diseased, and fortunately it is usually among the older ones, it should be promptly removed before the disease spreads to other portions of the plant.

BYRON D. HALSTED.

#### New York.

VERY HEAVY RECEIPTS OF ROSES AND CARNATIONS.—BUSINESS EXCEEDINGLY DULL.—CROWDS PATRONIZE CLEARY.

One wholesaler estimates the receipts of roses in this city last Saturday to have been in the vicinity of 300,000. There have been few days in the history of the flower trade here when the aggregate cut has approached what it has been for the past few days. Carnations are also coming in heavily, seemingly making an effort to average up for the scanty production of a few weeks ago. Simultaneously with these overwhelming crops business has apparently gone to pieces and the demand is exasperatingly slow. The result is that there is no such thing as stable prices, and the most importunate Greek can simply have goods at his own figure, placing the wholesaler, too, under a debt of gratitude to him for carrying the stock away. The retailers remark that the buying season seems to get shorter each year. The long, profitless summer wipes out whatever gain they may have made during the active winter season.

John Weir's son James has gone to the front. Mr. Weir thinks that fighting the Spaniard will be boys' play compared with the fight he has had to keep up for the past few years on Twenty-eighth street.

Standing room is at a premium these days at Cleary's auction room.

Visiting New York: A. H. Hews, Cambridge, Mass.

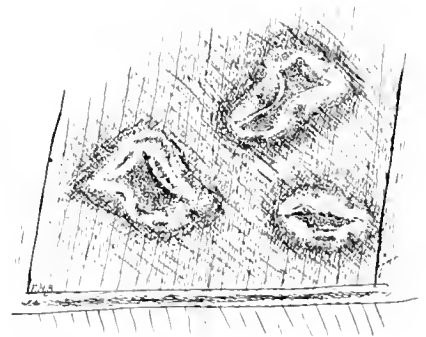


FIG 2

#### Philadelphia.

TRADE IS QUIET AND PRICES HAVE NO STABILITY.—BEDDING STOCK SELLS AT PRICES WHICH DETER MANY GROWERS.

And still it rains, scarcely a day passing without a shower or two. The cut flower market is quiet, there is little doing in the stores and shipping trade is rapidly falling off with the commission men.

Prices, as is usual at this season of the year, have no stability. The price for tea roses in twenty-five and fifty lots is

from 4 to 6 cents, but larger quantities go very low. Beauties range in price from \$2 to \$25 per hundred. Sweet peas are plentiful in all colors at from 25 to 75 cents per hundred.

Carnations are holding out well at from 75 cents to \$1.50 per hundred, a few extras bringing \$2. Pionies sell for \$4 to \$6 per hundred.

Bedding plants are moving lively when the weather permits of their being planted. Prices are about as follows: Lower grade of plants, such as verbenas, petunias and phlox, in 2½-inch pots \$3 to \$4 per hundred; 3½ and 4-inch stock of geraniums, heliotrope, ageratum and fuchsias, \$6 to \$8. Larger plants of the same in 6-inch pots, \$15 to \$20. Roses sell for from \$20 to \$40 per hundred in 5 to 8-inch pots.

Many growers say there is no money in 4-inch plants at less than \$10 per hundred, or the 2½-inch size at less than \$4, and as such figures have not been realized for the past six or eight years they have turned their attention to palms and other foliage plants. However, there are plenty of growers who are encouraged to supply the demand at the quoted figures and who have enough left over for an additional house every year or two.

The florists' shad dinner and picnic was held at the grounds of the Gun Club at Wissanoming Wednesday and, considering the weather, which could not be otherwise than cloudy, with a little rain, it was quite successful. There were about seventy-five ladies and gentlemen present and the afternoon was spent very pleasantly with games on the lawn and in watching the gunners at the traps. A May pole was erected in the center of the lawn and was decorated with carnations, bunting and red white and blue ribbons. A dance about the pole took place, between the showers, to music by the orchestra. A forty yards race was won by H. Dumont, with Wm. Smith and Wm. Craig second and third respectively. The running jump was won by H. Dumont, who covered sixteen feet, George Moss being second with fifteen and one-half feet. The forty-yard hurdle race was won by Geo. Moss, with H. Dumont second. J. W. Heacock won the high jump, with H. Dumont second, and the fat men's race was won by Edwin Lonsdale, with Chas. Fox second and T. Butler third. An excellent shad dinner was provided, to which all did justice. In the evening dancing was indulged in. The Brave Old Duke was rendered by Edwin Lonsdale in his best style, and the party broke up after singing the Star Spangled Banner K.

#### Boston.

MEMORIAL DAY HOPES AND PROSPECTS.—ALL FLOWERS VERY ABUNDANT.—EXHIBITION AT HORTICULTURAL HALL.—ATTRACTIONS AT THE ARBORETUM.

All thoughts are now turned to Memorial Day, and the prospects for supply and demand. Great hopes are based upon this observance, which New England florists have learned to regard as one of the most profitable of occasions, rivaling Easter and Christmas, and to which current events are expected to give additional importance this year. The florists will need all they can get out of Memorial Day, to average up on the losses of the past two weeks, during which they have gone through a period of unparalleled dullness. The receipts of flowers have been very low and entirely out of proportion to the outlet for them. *Outdoor bloom* has begun to come in

and that helps to still further embarrass the situation. Not even the most sanguine grower has the temerity to suggest that there will be any shortage in any line for Memorial Day. All indications point to a tremendous crop of carnations and roses and moderate prices are likely to prevail.

Pyrauses, prunuses and redbuds are at their height at the Arnold Arboretum and make a gay display. The lilacs are following closely on them; they will be even finer than they were last year. The hardy indica azaleas have gone through the winter well and Mr. Dawson is highly elated over their acquisition.

There were quite a number of interesting things at the exhibition at Horticultural Hall on Saturday, May 21. Wm. Donald, gardener to J. S. Bailey, showed a plant of *Mitonia vexillaria Hilliana*, which won a certificate of merit for superior cultivation. Harvard, a fine dark crimson carnation, was shown by J. Taillby & Son. It is said to be a cross between Mangold and Uriah Pike. Rea Brothers' hardy perennials, C. H. Souther's glorioxias, Oakes Ames' hardy primula, James Conley's pyrauses and magnolias, etc., all contributed to make an attractive show; but the title of "Grand Exhibition," as announced at the entrance, was hardly justifiable. Why is it that flower shows are always "grand?"

Wm. F. Dawson, son of Jackson Dawson, is to be married June 15, to Miss Julia Hoffman, of Schenectady, N. Y. Mr. Dawson is consulting engineer for the General Electric Company at Schenectady.

Plant auctions at McCarthy's are booming now; prices up to the average, as a rule.

#### Chicago.

GREAT OVER-PRODUCTION OF STOCK.—GOOD PROSPECTS FOR JUNE TRADE.—FLORISTS' CLUB MEETING AND PLANS.—NOTES AND COMMENTS.

The generally predicted revival of trade for Memorial week has thus far failed to materialize and the superabundance of flowers the fore part of the week was the largest of the season. Tulips, iris, narcissus *Poeticus*, peonies, lilac, spirea, snowballs and Cape jasmine have been in the market in over supply. The season for all this class of stock except jasmine and peonies will be virtually over this week, and when these flowers are gone better prices will be realized for roses, carnations and all greenhouse grown flowers. The market will probably be cleaned out of all salable stock this week. Another such glut as we have experienced for the past few weeks is not likely to occur before fall. Usually there is a very good demand for flowers during June and at the same time many growers will commence to throw out their stock of roses preparatory to replanting, which will materially reduce the stock of cut roses.

The meeting of the Florists' Club, May 20, was well attended and two candidates were elected to membership. Sweet peas and summer flowers were the subject for discussion. The general sentiment was that there is not enough demand for cut flowers in summer to warrant any special effort to grow them for that season.

At the next meeting arrangements will be made for a series of summer outings. A grand excursion to Milwaukee has been proposed and is generally favored by the members. J. Austin Shaw and J. C. Keller of New York, and C. C. Poll of North, of Milwaukee, visited the club.

O. J. Friedman, who has been sick with typhoid fever for the past two months is much improved and will be down to his store in a few days.

A. L. Vaughan has returned from a business trip through the west.

Bassett & Washburn are mailing with their price list, a card giving samples of ribbon, with sizes and prices attached.

John Muno, one of the oldest settlers of Chicago, died May 19 at the home of his son, John Muno, Jr., the well known florist on Touhy avenue, near Western avenue. Mr. Muno was 86 years of age.

The floral tributes at the funeral of Police Inspector Michael Schaaek last Sunday were the most elaborate seen in Chicago in a long time.

The Chicago Flower Mission will give an entertainment at Willard Hall on June 14.

Visiting Chicago: Miss Rose Wright Spokane, Washington. J. T. A.

#### Baltimore.

FLOWERS FOR THE SIXTH MASSACHUSETTS REGIMENT WHICH WAS MOBBED IN BALTIMORE THIRTY-SEVEN YEARS AGO.—HAIL STONE DAMAGE.—CHANGES IN THE PARKS.—NOTES.

The planting out season is in its full glory just now and to judge from the amount of talk it produces, the crop of torpedoes Uncle Sam has planted in the harbor is by far the most important plantation of all. "It is an ill wind that blows nobody good," and at least one of the trade is satisfied with the war as he is finishing off the earth works and is sodding them for the government.

The hail storm that swept over the southwest part of the city left many a wrecked glass roof, too many to itemize, in fact, for from north of Catonsville around to Brooklyn not a place seems to have escaped damage, some indeed, having almost all the glass on the houses broken. The customary exaggeration would lead one to believe that balls of ice as large as hens eggs fell, but it is pretty certain that there were some as large as pigeon eggs, and anyway, they were large enough to shatter any single thick glass and broke much that was double thick.

There have been a good many changes among the superintendents and employees in the city parks. A. Anderson, of Patterson Park, has given place to Robert Corse. Mr. Johnson, of Clifton Park, has been succeeded by N. F. Plitton. Fred. Wessler is filling the position in Riverside Park lately occupied by Mr. Clark, and the changes made in subordinate positions are past enumerating.

The passage of the Sixth Massachusetts Regiment through the city called out boundless enthusiasm and used up a good many cut flowers, for which we should be thankful, as the demand outside of funeral work, is not what it might be. Besides the floral peace offerings to the officers of the regiment, flowers were actually strewn in the path of the rank and file at Mt. Royal Station, which was a much better way of treating the soldier boys than was the reception of stones accorded this same regiment when it passed through Baltimore in 1861.

MACK.

BRIDGE FORT, CONN.—Howard Bayette was so badly injured by a train at a street crossing at Rochester, N. Y., that both legs were amputated at the knee. He was employed at his trade as a florist at the time of the accident. His family resides here.

**THE AMERICAN FLORIST**

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The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

The leaves of vine forwarded by "M. W." were so far damaged in transit as to be beyond identification.

The Florists' Hail Association is promptly adjusting and turning over the cash to cover the recent heavy losses at Kansas City.

FUMIGATING with hydrocyanic gas in the cellar after nursery stock is dug in the fall is recommended in a recent bulletin of the New York Experiment Station. This will probably destroy all insects.

WE have received a box of excellent Cape jasmines (*Gardenia florida*) from the Concordia Nurseries, Dickinson Texas. They were cut and packed when the buds showed color, and arrived in the best possible condition.

R. G. CAREY'S list of the best twenty-five chrysanthemums, submitted to the Florists' Club of Philadelphia last November, and published subsequently in the AMERICAN FLORIST, has been translated into French and appears in the May issue of *Le Nord Horticole*. The list has also been published by the *Gardening World*, London. Special comment is made on the American requirement of good stem and foliage in a chrysanthemum.

MR. CHAS. RAYNER informs us that a new enterprise will be launched in Louisville, Ky., June 1. It will be known as the Louisville Florists' Supply and Exchange, doing a commission business with some unique features. All consignments are to be kept absolutely separate, and the consignee will be notified of any surplus and matters so arranged that his stock can be traced right through. No fakir business will be permitted at the new establishment, and it is claimed that a business of this kind will supply a long felt want in Louisville and will meet with the approval and support of the florists in general.

**Resolutions on the Death of Thomas Cartledge.**

At a special meeting of the Florists' Club, called Wednesday afternoon, May 18, to take action on the death of our fellow member and ex-treasurer, Thomas Cartledge, the following resolutions were adopted:

WHEREAS, The Florists' Club of Philadelphia having learned with deep regret of the death of Thomas Cartledge, its late treasurer and honored member, therefore be it

*Resolved*, That the Florists' Club of Philadelphia hereby expresses its deep sense of the irreparable loss it has sustained in common with a host of sincere friends; they were proud to have known him, to have associated with him, and to have called him friend; a man just, honorable and true in every position to which he was called. His memory will long be

kept green in the hearts of the many to whom he was always a wise, sympathetic and affectionate counsellor. The Florists' Club, to which he was long a faithful and efficient treasurer, and of which he was one of the founders, is unable to fully express the sense of great loss sustained by his death.

*Resolved*, That these resolutions be spread on the minutes of the club and a copy be sent to the family.

ROBERT CRAIG,  
(Signed) CHAS. D. BALL. } Com.  
EDWIN LONSDALE. }

**Cut Flower Price Lists Received.**

H. L. Sunderbruch Co., Cincinnati; Holton & Hunkel Co., Milwaukee; Ellis & Pollworth, Milwaukee; St. Louis Cut Flower Co., St. Louis; Wm. F. Kasting, Buffalo; City Hall Cut Flower Market, Boston; Illinois Cut Flower Co., Chicago; A. G. Prince & Co., Chicago.

**Catalogues Received.**

The Herendeen Manufacturing Co., Geneva, N. Y., heating; D. Haster & Sons, Hillegom, Holland, bulbs; S. A. Van Konijnenburg & Co., Noordwijk, Holland, bulbs; Illinois Cut Flower Co., Chicago, Ills., vases; A. Blanc & Co., Philadelphia, Pa., plants; Ellis & Pollworth, bulbs; Vredenburg & Co., Rochester, N. Y., lithograph plates; C. G. Olie, Boskoop lez Gonda, Holland, plants and bulbs.

**Greenhouse Building.**

Bloomfield, N. B.—John Campbell, one rose house.

Hartford, Conn.—John Coombs, three rose houses each 20x100, and two violet houses.

Waterbury, Conn.—A. Dallas, two rose houses, one 21x150, the other 21x50.

Grand Rapids, Mich.—Crabb & Hunter, large carnation house and violet houses. Henry Smith, violet house 150 feet long and carnation house 250 feet long.

**A Famous Chicago Collection of Orchids.**

The only private collection of any extent is situated within half an hour's ride from the heart of the city, where the influence of the impure smoky atmosphere at times has its effect on some of the varieties of tender constitution. The owner of this collection has seven houses devoted to their culture, and although small, they are well adapted to the needs of the varieties grown. It may be safely stated that no collection possesses such a combination of species as is here seen thriving and flowering with the greatest freedom, in fact the visitor will rarely be disappointed, finding a good display of flowers at any season.

It may not be generally comprehended, but it is true that here may be found the finest and most complete collection of botanical orchids in the country. In many instances they are quite unique, and Mr. E. G. Uihlein, the fortunate owner, is ever ready to acquire any species that is novel or interesting. Many sarcopodiums, epidendrumms, cecylogynes, arides, vandas, masdevallias, odontoglossums, cattleyas and lalias are grown, but to enumerate even a small share of them would encroach too much on your space. Foliage plants also have a large share of his attention, and very complete collections of aloecasias, caladiums, crotons, draceanas, nepenthes, etc., thrive most luxuriantly.

The collection of cypripediums is very extensive, over fifty species and varieties

being in bloom at the time of our visit. It is gratifying to note that the proprietor of this group of plants takes great pleasure in allowing any one interested to see them, and is ever ready to impart what knowledge has been obtained in growing so many species with such remarkable success in a comparatively limited space and under very adverse conditions.

A. DIMMOCK.

**Milwaukee.**

AMARYLLIS CULTURE BY MR. NEHRING.—THE DEVELOPMENT OF BULBS WHICH COST FIVE DOLLARS EACH.

There is a small private greenhouse in this city which is doing its full share in the development of high art in horticulture. It is owned by Mr. Nehring, a naturalist who has gained a more than local reputation. Mr. Nehring's chief hobby is the amaryllis, although orchids have had their share of his attention. For years he has been quietly at work hybridizing and studying the amaryllis, simply for love of the flower. No attempt has been made to sell the product of his labor. Florists have told him they did not care for amaryllis because "there is no money in them." Surely no florist would say that after seeing the plants I saw last week and they were inferior to those which had bloomed earlier and had gone to seed. The original stock came from the noted firm of De Graff Bros., of Leyden, Holland. Mr. Nehring's endeavor has been to produce varieties of greater substance but the colors have also greatly improved. The different seed pods are carefully tagged recording all particulars of their growth. There are numerous batches of seedlings of various ages, one lot of which will bloom next season. It is difficult to judge their value. The original stock cost \$5 a bulb, and he has spent years caring for them. It takes four years to produce a blooming bulb from seed. His conservatory became over crowded and several cases of bulbs have been sent to his place in Florida where they will be grown outside.

Binzell & Kellner have removed to temporary quarters on Chestnut street while the new building is being erected.

Garland Bros. display great skill and care in packing roses for the market.

Complaints about poor trade are not uncommon, but there are unmistakable evidences of evolutionary changes, and those who conduct their affairs as was common years ago do the most complaining.

The Japan quince, which usually fails to bloom here, and the almonds are a mass of bloom this week. All vegetation is luxuriant this season, and records show that late, cool springs always bring forth the more gratifying results. C. B. W.

**Grand Rapids.**

MICHIGAN FLORISTS PROPOSE VISITING THE CHICAGO CHRYSANTHEMUM SHOW.—NEWSY JOTTINGS OF MEN AND FLOWERS.

Trade has been fairly good this week, with an abundance of flowers of all kinds. Every florist is busy with plant trade. Prices range about the same as last year, with a prospect that everything in the plant line will be sold.

The Florists' Club met at the Eagle Hotel on Tuesday, May 24. On account of the busy season it was decided not to meet again until the first Tuesday in October. Those present were in favor of attending the Chicago chrysanthemum show in a body rather than to hold the annual picnic as heretofore.

Young stock of all kinds is looking well.

Carnations are all planted out in good shape.

Crabb & Hunter are building a large carnation house and several violet houses. The Grand Rapids Floral Company expects to rebuild several houses this summer. Henry Smith is rebuilding several rose houses and has built a violet house 150 feet long and a carnation house 250 feet long. Jubilee and Murillo carnations have done well with him this year.

Crabb & Hunter have a fine show of Mayor Pingree, Flora Hill, Dazzle and several other carnations. Their new carnation, Irene, is looking well.

Hopp & Lemke have a good show of American Beauties. Their new carnation, Catherine Pantlind, has come to stay, as it is a pleasing color and lights up well at night.

The N. B. Stover Floral Company, of Grandville, expects to rebuild several of their carnation houses this summer. They report a very satisfactory trade so far this year.

F. A. Chapman has a sport from Day-break of the Victor shade which he has been growing for several years.

Wenzel Cukierski, the city florist, has been promoted to be superintendent of parks. He has worked hard to make the Grand Rapids parks what they are and is justly entitled to the position.

A committee of florists will meet with the secretary of the State Fair to arrange a premium list for their department in the exhibition to be held in September.

H. S.

### San Francisco.

CALIFORNIA FLORAL SOCIETY'S EXHIBIT WAS A FAILURE FINANCIALLY DESPITE THE UNUSUAL MERIT OF THE DISPLAYS.—LIST OF THE AWARDS.

The following is the official list of awards at the exhibition of the California Floral Society held in Golden Gate hall, San Francisco, May 13, 14 and 15:

Best and largest collection of carnations, John H. Sievers.

Best and largest collection of pelargonium cut blooms, John H. Sievers.

Best and largest collection of ferns, John H. Sievers.

Best display of greenhouse roses, John H. Sievers.

Second best display of greenhouse roses, F. Pelicano & Co.

Best display of flowering and foliage plants, John H. Sievers.

Best and largest collection of pelargoniums, Geo. N. Tyler.

Best and largest collection of pansies, cut blooms, Geo. N. Tyler.

Floral designs, first premium, Frank Pelicano & Co.

Table decorations, first premium, Joseph H. Leikens.

Best display of foliage and ornamental plants, variety and grouping considered, Domoto Bros. & Co.

John H. Sievers, as usual, took the lion's share of the premiums. His exhibit was tastefully arranged and included the following twelve varieties of carnations, the same that were exhibited at Chicago at the meeting of the American Carnation Society: Dr. Travis, Hannah Hobart, Grace Fumyon, Leslie Paul, Elsie Ferguson, Iris Miller, Maria Angela, Harriett Bradford, John Carbone, Nita Berniger, John Hinkel and Helen Drau. The last, a seedling from Albertina, is very fine. Three hundred blooms were exhibited and none of them were under two and three quarter inches in diameter, with stems from two to three feet in length. Hannah Hobart is another fine variety, the blooms exhibited were none of them under three

inches in diameter and a great many of them were three and a half inches, with the same length of stem as the Helen Drau. I understand that six thousand plants of these twelve varieties have been sent to Albert M. Herr, Lancaster, Pa., for trial as commercial varieties and will be disseminated by him when the proper time comes.

In the center of the stage Mr. Sievers exhibited a vase of American Beauty roses with stems four and five feet long. He also displayed vases of Bride, Bridesmaid, Testout, Kaiserin, Meteor, Ulrich Brunner and Souvenir de Pres. Carnot. The background of his exhibit was arranged with palms and ferns, and in the foreground was a fine show of orchids, ferns, etc. In the forward center were cut pelargoniums. The exhibit on the whole was the finest ever seen in San Francisco.

Another display which attracted a great deal of attention was a floral design "the Maine," exhibited by Frank Pelicano & Co., whose show of greenhouse roses, while not so large as Sievers', was very fine.

Domoto Bros. & Co. displayed Japanese stock, ferns, eycaas, varieties of rhaps, maples, aspidistras, etc. The grouping was very artistic and received much favorable comment.

George N. Tyler won first premium on each of his entries, 100 varieties of pelargoniums and pansies grown from Vaughan's international mixture of seed.

But with all the fine displays of flowers and plants the show was a financial failure, as the paid admissions did not equal the rent of the hall, let alone the premiums. I think this will be the last floral exhibition for some time to come given by any of the floral societies in the towns adjacent to the bay of San Francisco. The Pacific coast public will not pay an admission fee to view a floral exhibit, no matter how fine it may be. I presume many of the eastern cities have gone through the same experience. G. N. T.

### Asters.

Brown—"Has Mrs. Jones planted all those asters I sent her?"  
Jones—"I never aster."

SPRINGFIELD, MASS.—Schlosser & Andrews are making extensive repairs on their greenhouses.

JOLIET, ILL.—Emil Blum, of this city, and Miss Haerer, of Philadelphia, were married on May 11.

COVINGTON, O.—Dan Ruttle detected Ed. Berte in stealing flowers from his greenhouse. Berte was sent to jail.

OWATONNA, MINN.—S. S. Zeigler, of What Cheer, Iowa, has become field manager for the Owatonna Nursery Co.

CARLEVILLE, ILL.—Crum's Nursery at Palmyra was almost entirely destroyed by a wind storm which swept Macoupin county on May 20.

NATICK, MASS.—William Montgomery, father of Alexander Montgomery, superintendent of E. M. Wood & Company's greenhouses, died on May 23, aged 72 years.

### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each. Insertions of cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1915 is entitled to a free line want adv. free to be used at any time during the year.

SITUATION WANTED—By young man of several years' experience as general helper. Best references. GEO. R. HILL, Marton, Ind.

SITUATION WANTED—By a good all-round gardener. Fine job, married, no family; private place preferred. State wages. H. H. HUNT, Evanston, Ill.

SITUATION WANTED—By a practical florist, good propagator and designer; 25 years' experience. Can take charge. New England preferred. Address H. care American Florist.

SITUATION WANTED—By all-round florist on private or commercial place; married, good worker and total abstainer. Best of references. Address A. R. W. Box 349, Stafford Springs, Conn.

SITUATION WANTED—By experienced florist, married (no children), middle age; either private or commercial place; understand raising general stock, greenhouse building and steam fitting. Address FLORIST, 539 Eason Ave., St. Louis, Mo.

SITUATION WANTED—As foreman in large cut flower growing establishment by a first-class grower of roses, carnations, etc.; has been foreman in large places for past 10 years; 24 years' experience. Best references. GROWER, care Am. Florist.

WANTED—To rent 15,000 to 20,000 feet of glass in good repair, near Chicago. H. C. BLEWITT, Des Plaines, Ill.

WANTED—Some 10x12 or 12x12 A double strength glass; also second hand 4 in. cast iron pipe and fittings. W. P. RANSON, Junction City, Kans.

WANTED—An energetic foreman, married, for large cut flower growing establishment; must be experienced. METEOR, care Am. Florist.

WANTED—First-class florist's wire design worker. Steady work the year round. Apply with refs. HOLTON & HUNKEL Co., Box 103, Milwaukee, Wis.

WANTED AT ONCE—Florist, young man preferred, single, to grow roses, carnations, mums, violets, wholesale only; state wages, with board, expected. MICHELL FLORAL CO., Groesse Isle, Mich.

WANTED—To rent or lease with privilege of purchase, greenhouses, 8,000 to 15,000 feet of glass. Must be in good repair and running order. Address with full particulars W. R. care American Florist.

WANTED—A 20 or 25-horse power tubular boiler, 2 1/2 or 3-in. tubes, iron grates, everything complete and in good repair, ready to set up at once. Must be cheap; will pay spot cash. E. C. NEWBURY, Mitchell, S. Dak.

WANTED—A good second-hand boiler in perfect order for heating greenhouse by hot water under pressure of say 20 pounds; capacity equal to about 4000 lineal feet of 1-in. pip.; Address THOS. A. IVEY, 107 Colborne St., Brantford, Ont.

WANTED—A competent florist capable of taking charge of a small greenhouse. Must be sober and not afraid to work. State highest wage till 1st of October, when an increase of salary will be given. W. H. WRIGHT, 204 1st East St., Vicksburg, Miss.

FOR SALE CHEAP—Two Hitchings boilers. One No. 10, one No. 17, with corrugated fire box. In very good condition. W. T. BELL, Franklin, Pa.

FOR SALE—A 10 H. P. hot water boiler in A No. 1 condition. Only used two years. Price \$80 on premises. MRS. H. C. BUCHELER, Oconomowoc, Wis.

FOR SALE—Fine retail business with greenhouse, large stock plants, palms; or exchange, a bargain, have other business. Address H. H. care American Florist.

FOR SALE—First-class retail stand, about 5000 feet of glass, new. Has never paid less than \$1300 per year net. Will require \$1000 cash, balance time at 6 per cent. Reason for selling, falling health. Address ILLINOIS, care American Florist.

FOR SALE—Four greenhouses, nearly new, splendid retail stand, near business center in residence district, on road to cemetery, paved street. Terms easy. Must refer on account of poor health. A. CLAUS, 563 N. 13th St., Springfield, Ill.

FOR SALE OR LEASE—A first-class nursery, located near Frankford, Philadelphia, comprising 10 hothouses, 2 1/2 story brick dwelling, stable, horses, wagons and all necessary implements. Lot 20x150. Must be sold owing to death of owner. For particulars call or address 1845 Buckle St., between Kensington and Frankford Aves., Philadelphia, Pa.

WANTED IMMEDIATELY. A good all-round florist, not afraid to work, on a commercial place, 5 houses; carnations, violets and mums principally. Wages \$20 per month and board; good home. Must be a temperate man. MRS. H. C. BUCHELER, Oconomowoc, Wis.

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 (Successor to WINTER & GLOVER.)  
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**HIGH GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
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**WIRE DESIGNS: A Full Line.** Write us for  
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**Vaughan, McKellar & Winterson,**  
 45-47-49 Wabash Avenue,  
 WE OFFER ALL VARIETIES CHICAGO  
**SELECT ROSES and CARNATIONS**  
 We keep a large stock of all miscellaneous stock such as Narcissus, Lilies, Valley, Tulips, Lilac,  
 Peonies, Sweet Peas, Pansies, Smilax, Asparagus, Ferns, etc. etc. Write for special prices on  
 large orders.  
**GET ORDERS IN EARLY FOR DECORATION DAY.**

**Wholesale Flower Markets**  
 CHICAGO, May 27.  
 Roses, Beauties .....per doz., 75@2.50  
 " Brides ..... 1.00@ 4.00  
 " Meteor, Bridesmaids, Kaiserin. 1.00@ 4.00  
 " Gontiere, Perles ..... 1.00@ 3.00  
 Carnations, common ..... 40@ 1.10  
 " fancy ..... 2.00@ 3.00  
 Marguerites ..... .50  
 Narcissus Poeticus ..... .50  
 Harnish, Callas ..... 2.00@ 5.00  
 Lily of the valley, Cape Jasmine ..... .50@ 1.00  
 Tulips ..... 1.00@ 4.00  
 Sweet peas ..... 50@ 1.00  
 Gladioli ..... 6.00@ 8.00  
 Adiantum ..... .50@ 1.00  
 Smilax ..... 10.00@15.00  
 Asparagus ..... 40.00@75.00  
 Pansies ..... .50  
 Peonies ..... per dozen, .25@ .50

**ILLINOIS CUT FLOWER CO.**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

....DO YOU KNOW....  
**J. A. Budlong?**  
 He's a Wholesale  
 ....Grower of Cut Flowers.  
 Send him a trial  
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 37-39 Randolph St., Chicago.

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 Don't Forget that we are at 4 Wash-  
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 Open for Cut Flower Sales at 6 o'clock  
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Per 100	Per 1000	Per 100	Per 1000
42.00	425.00	41.00	415.00
1.50	12.50	1.00	7.50
1.40	12.40	1.00	7.50

 Write us for our choice  
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**ROSE PLANTS**  
 Out of 2 1/2-inch pots. Per 100 Per 1000  
 American Beauty.....\$5.00 \$45.00  
 Meteor..... 2.50 22.50  
 Bride..... 2.50 22.50  
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 Belle Siebrecht..... 2.50 22.50  
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 Special Attention Given to Shipping Orders.

**Wholesale Flower Markets**

NEW YORK, May 25.

Roses, Beauties, Hybrid.....	2.00@10.00
" Bridesmaids, Testouts, Brides.....	.50@ 4.00
" Morgans, Meteors.....	.50@ 2.00
Carnations.....	.75@ 1.25
Lily of the valley.....	.50@ 1.00
Sweet peas, per 100 bunches.....	4.00@6.00
Harrisli, Callas.....	4.00@ 6.00
Smilax.....	10.00@12.00
Asparagus.....	40.00@50.00
Cattleyas.....	50.00

BOSTON, May 25

Roses, Beauties, Jacqs, Brunners.....	6.00@12.00
" Brides, Bridesmaids, Meteors.....	2.00@ 8.00
Carnations, white.....	2.00@ 3.00
" colored and fancy.....	2.50@ 4.00
Lily of the valley.....	1.00@ 3.00
Daffodils, Tulips, Spiraea stocks.....	2.00@ 3.00
Harrisli, Callas.....	8.00@12.00
Sweet peas.....	.50@ 1.00
Smilax.....	16.00@25.00
Asparagus.....	50.00

PHILADELPHIA, May 25.

Roses, Beauties.....	2.00@25.00
" Brunners.....	6.00@12.00
" Jacqs.....	8.00@12.00
Carnations.....	.75@ 1.50
" extra.....	.75@ 2.00
Lily of the valley.....	3.00@ 4.00
Harrisli.....	8.00@10.00
Sweet peas.....	.25@ .75
Paeonies.....	4.00@ 6.00
Smilax.....	12.00@15.00

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SPECIAL EXTRA STOCK OF  
 AM. BEAUTY, METEOR,  
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**Record Breaking Carnations**  
 ALL THE YEAR ROUND.

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Roses shipped to all points. Price list on application.

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 Consignments from regular growers assigned separate space in our market. We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.  
 THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

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 Cut Flower Consignments Solicited. Best market.

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 Cut Flowers AND Florists' Supplies  
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 Wholesale Florists JOBBERS IN  
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 FLORISTS' VASES.  
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 84 HAWLEY STREET, • BOSTON.

**JOHN YOUNG,**  
 ROSES, CARNATIONS, VALLEY  
 and all other choice cut flower stock.  
 51 W. 28th Street, NEW YORK.  
 Price list on application.

**FRANK MILLANG,**  
 CUT FLOWERS,  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 Cut Flower Exchange. NEW YORK.



**Pittsburg.**

FLOWER SHOW QUESTION POSTPONED.—  
TRADE CONDITIONS.—LINCOLN NEFF AND  
HIS NEW DOWN-TOWN STORE.

The regular meeting of the Florists' Club was called for Monday night but the members were too busy, the bedding plant trade opening up this week with a rush, to attend in numbers sufficient to make a quorum; therefore the decision whether or not to hold a flower show in the fall was postponed until the meeting in June, when it is hoped there will be a full attendance.

The cut flower trade is quiet at present but the school commencement demand will make this branch of trade better for the next few weeks. Stock of all kinds is very plentiful and the quality is first-class. Peonies are coming in freely and are very cheap, \$2 per 100 being the wholesale price.

Lincoln I. Neff reports business very fair, both at the Sixth and the Butler street stores and is very well satisfied with his experience so far in the downtown store on Sixth street, business there being fully up to his expectations. Mr. Neff attends personally at this location, Mrs. Neff having charge of the Butler street establishment. REGIA.

WAUKEE, IOWA.—F. C. Carlton has been arrested at Kansas City for swindling J. Wragg & Sons by means of forged orders for nursery stock. Carlton received \$150 in commissions upon orders on which Wragg & Sons lost \$2,000 by reason of the non-acceptance of the shipments.

**GREENHOUSE BUILDING**

Full information regarding building and heating Greenhouses is given in "GREENHOUSE CONSTRUCTION," by L. R. TAFT, Professor of Horticulture, Michigan Agricultural College.

PRICE, POSTPAID, \$1.50.

**"Greenhouse Management"**

by the same author, treats of the forcing of flowers, fruits and vegetables under glass; also the propagation and care of house plants; insects, diseases and remedies. 400 pages. Just out.

PRICE, POSTPAID, \$1.50.

(See review in American Florist, page 1173, April 30, 1898.)

**L. R. TAFT,**

Agricultural College (P. O.), - Michigan.

**FIRST EXCURSION OF THE SEASON TO CLEVELAND**

via Nickel Plate Road, June 3 to 6 inclusive. \$11 35 for the round trip on certificate plan. Tickets good returning until June 13 inclusive. Three through trains daily from Van Buren Street Passenger Station, Chicago. For further information address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (22)

**CONGREGATIONAL HOME MISSIONARY SOCIETY**

meeting will be held in Cleveland, O., June 7 to 9 inclusive, account of which Nickel Plate Road will sell tickets at \$11 35 for the round trip on certificate plan. Dates of sale June 3, 4, 5 and 6 inclusive. Tickets good returning until and including June 13. For further particulars address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (23)

**Going, Going, Gone!**

and it's your own fault if you don't get the bargains. Auction Sales of Plants every Tuesday, Thursday and Saturday at 9 A. M. at . . . . .

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You will run up against a lot of your brother florists and you will find plenty of stock there that you can buy and make money on, thus combining business and pleasure, and you will resolve to go again . . . . .

Every Tuesday and Friday while the Plant Auctions Last. . . .

**SIGN OF THE RED FLAG.**

**Your Spring Plant Trade**

will come easier, and be more profitable if solicited in the nice way you can do such things by means of

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**FLORAL BLOTTERS**

Samples for 20 cts. in stamps.

**DAN'L B. LONG, Publisher**  
**BUFFALO.**

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The Nickel Plate Road will sell tickets from Chicago to Cleveland and return at a fare and one third for the round trip on certificate plan, good going June 3, 4, 5 and 6, and good returning until June 13, inclusive, on occasion of the annual meeting of the Congregational Home Missionary Society in that city. This rate will be \$11.35 for the round trip, which is somewhat lower than via other lines. Those desiring space in sleeping cars should make early application in order to secure the best accommodations.

Any further information cheerfully given by addressing J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (21)

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**DIRECTORY** Of Florists, Nurserymen & Seedsmen of the United States and Canada. Price Two Dollars. In Flexible Leather Binding. Three Dollars. . . . .

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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYMEN.  
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 GEORGE C. SEAGER, Rochester, N. Y., Sec'y and Treas.

Legislation on Inspection of Nursery Stock.

To the careful observer the multitude of laws recently enacted against nursery pests seem designed especially for the opening of the public purse and the providing of "good fat jobs" for sundry favored citizens, rather than being earnest attempts to meet and overcome the serious dangers which threaten our nurseries and orchards.

The folly of the inspection idea as embodied in the laws recently enacted has been well shown in recent articles by Prof. Smith and others. The vital defect in nearly all these laws is their failure to put the burden where it should be, that is, on the man who ships the diseased or infested stock. They provide a severe penalty for shipments without certificates of inspection, but in many cases no penalty whatever is provided for the sale or shipment of diseased or infested stock.

Every reputable nurseryman is watching his stock with the utmost care and destroying or treating everything infested in the slightest degree, and will ship nothing which is not known to be absolutely free from San Jose scale. Experiments prove that fumigation with hydrocyanic gas will destroy all insect pests. This is a somewhat difficult process for growing stock but becomes a very simple one after the trees are dug. Every nurseryman, therefore, can readily and at small cost make absolutely certain that nothing which he is sending out is infested.

Let a severe penalty, therefore, be provided against the shipment or sale of infested stock and give the buyer, as well as the state, the right of action for recovery of the penalty. Provide for the immediate quarantine and thorough treatment of nurseries in which any stock is infested and for the destruction of the stock, when so badly infested as to be necessary. These provisions will call a halt on the careless and unscrupulous dealer who is really the only one to be feared.

W. X. R.

Nashville, Tenn.

The Southern Memorial Day has come, and gone with little or no difference to the florist. The date observed here was May 19, when Confederate graves were decorated. There is still to be another Memorial Day, the 30th inst., for the Federal dead.

The school commencement season is upon us and has given quite an activity in floral circles.

The basket business, which in former years was such a bonanza to the florist, has been almost entirely done away with, bouquets being used in their place.

Cape jasmine from the south is now in the market and is quite popular for commencement. The quality of roses, Bride and Bridesmaid is very good for this season. The weather has been very warm and the sun scorches the leaves, denigrating some of the stock. There are a few good Beauties still in the market and there is a very good call for them. One florist has still a few Harrison lilies. In the floral arrangement decorations hydrangeas are being effectively used. Sweet peas are coming in abundantly and need only a ready sale.

A good rain on the 17th broke the drought which had prevailed for some time and

has given a good start to field plants. Funeral work was plentiful during the past week, and several times there was quite a rush.

M. C. DORRIS.

Armstrong's  
 Everblooming  
 Tuberoses

A NEW departure in Tuberoses growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

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 ...Address...

LUTHER ARMSTRONG,  
 3720 Olive St., ST. LOUIS MO.

OUR SPECIALTIES

— ARE —  
 AZALEAS, ROSES,  
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New and rare hardy plants for forcing. Novelties in Ferns (raised by the largest London grower). The newest and best varieties of roses; H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

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IMPORTERS AND EXPORTERS OF NEW AND RARE PLANTS.  
 136 Boylston Street, - BOSTON, MASS.

HARDY

Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.  
 PEONIES, PHLOX, IRIS, DELPHINIUMS,  
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JACOB W. MANNING,  
 The Reading Nursery, READING, MASS.  
 ESTABLISHED 1854.

HARDY SHRUBS

Assorted in 25 Varieties.

My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

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Florists' Stock for Bedding

Alternanthera Coleus, Geraniums, Pansies, Daisies, Verbenas, Fuchsias, Salvia, etc., etc. Write for prices. Florists when in Milwaukee are invited to look over our stock.

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EVERGREENS, Etc.

- 20,000 American Arbor Vitae, 2 to 8 feet specimens and bedding plants.
- 5,000 Pyramidal Arbor Vita, 2 to 4 feet.
- 20,000 Compacta, Globe and other dwarf Arbor Vitae, all sizes.
- 3,000 Nordman's Silver Fir, 1 to 2 1/2 feet.
- 2,000 European Silver Fir, 2 to 4 feet.
- 5,000 Hemlock Spruce, 1 to 4 feet.
- 10,000 Norway Spruce, 3 to 8 feet.
- 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
- 5,000 Irish Junipers, 1 to 2 1/2 feet.
- 10,000 Pines, Austrian, Scotch, Excelsa, White and dwarf varieties, all sizes.
- 1,000 Enonymous Japonica, 18 to 36 inches.
- 2,000 Enonymous radicans variegata.
- 1,000 English Holly, 1 to 4 feet.
- 3,000 Mahonias aquifolia and Japonica.
- 3,000 English Ivy, strong plants.

Prices low. Correspondence solicited.

THE WM. H. MOON CO., Morrisville, Pa.



IMPORTERS

JAPANESE PLANTS,  
 BULBS, ETC.

At lowest prices. Small orders filled from experimental garden Columbia Road Dorchester, Mass. Wholesale catalogue, 188, free to the trade.

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Office: 272 Boylston St., BOSTON, MASS.



TOKYO...  
 NURSERIES CO.

Headquarters for Japan Lilies, Cycas Revoluta, Morning Glory, all kinds of Japanese plants, seeds etc., etc. Large assortment always in stock. Orders promptly executed. Write for catalogue.

The Tokyo Nurseries Co.  
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 Cable Address  
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Peacock's  
 Prize Winning Dahlias

36 First Prizes out of 39 entries in 1896 and 1897.

Send for 1898 illustrated wholesale catalogue before placing orders elsewhere.

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Clematis

Large flowering, strong young plants of the following leading sorts....

Jackmanni, Henryii, Duchess, Rainona, Mme. Bullard, Princess, Mme. Ed. Andrie, Superba. Just right for potting or planting up for next Fall and Spring sales. \$4.00 per doz., \$8.00 per 100....

F. A. BALLR, Bloomington, Ill.

THE AMERICAN FLORIST'S  
 COLOR CHART

is now accepted as the standard in preparing color descriptions by many foreign houses as well as in America.

PRICE 15 CENTS POSTPAID.

AMERICAN FLORIST CO., 322 Dearborn St. Chicago

A LIVE AND RELIABLE CORRESPONDENT WANTED in every live city in the world. We enable you to deliver flowers by telegraph. A profitable convenience. For particulars, write

C. B. WHITNALL,  
 438 Milwaukee St., MILWAUKEE, WIS

**Helpful Reminders.**

Secure yourself now against want for future necessities. All plants which you require for fall and winter propagation should be set aside, most of them in the garden. You can probably arrange with customers to allow them \$1 for a bed of some special variety and in this way provide much of your fall stock without filling your own garden. This method is economical for you and your customer is pleased to save a dollar, but have it understood now.

You should have a trial ground, no matter how small, in which to plant new varieties, or old ones with which you are not acquainted. You must keep posted. Almost every one relies on variegated vincas for trailing vines. Young stock should be planted out now, but try honeysuckles for variety. The variegated honeysuckle, Aurea reticulata, is beautiful and you can get strong roots, nursery grown, for 7 or 8 cents each. Bring into warmth March 1 and you should have a great show by May or June. Save your lobelias, ageratum, white geraniums and centaureas to border scarlet geranium beds with white and blue. You will be asked for some vine that will grow quick and act as a screen. To produce what is wanted with a hardy vine or trailing shrub requires a two or three years' growth, but your customer is impatient and I advise setting out the proper plant at once, providing trellis, and supplying a cobeia or two that will answer for this season while the other plant is becoming established. This is the only way of getting along with some customers and is not a bad method.

Always charge 35 cents an hour for jobbing around. You cannot afford to do work poorly and you cannot do it thoroughly at your own expense. Make this a rule and you will increase your trade. You must do your work well, and be careful to give sound advice. A gardener's stock to-day is largely his brains and ability, just as it is with a doctor or lawyer.

C. B. W.

**FIRST QUALITY**

**HARDY CUT FERNS**

NEW CROP arriving daily, \$1.50 per 1000. Discount to wholesale jobbers. Prince's Ploc. 6c per lb. Headquarters for Galax Leaves. Laurel festooning, 4 to 8c per yd; Laurel and Prince's Pine Wreaths for Decoration Day, made to order. Fine green Moss 10 lbs. \$1.00; in sacks, 75c. Our goods are always the best to be obtained for the money. Prompt attention to all orders. Send in your orders now for Ferns for Decoration Day and you will be sure to have them.

**Crowl Fern Co.**

27 Beacon Street, - BOSTON, MASS.

**Have You Seen Our Agent?**

**A Complete Catalogue for Florists. Send for One.**

**ELLIS & POLLWORTH**  
MILWAUKEE, WIS.

**John Conley & Son,**  
Manufacturers of  
**TIN FOIL**  
2 AND 4 DOMINICK STREET,  
New York.

**BRILLIANT GREEN AND BRONZE**  
**GALAX LEAVES,**  
For Decorating and all Florists' Designs.  
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

**AS LEADERS**

IN ALL THINGS

We Lead the Early Closing Movement and take this means to inform our many

**PATRONS AND FRIENDS**

that from June 1st until September 1st our store will close at 5 p. m. on week-days, 1 p. m. on Saturdays, and can still execute all orders as carefully and speedily as heretofore.

**M. RICE & CO.**

IMPORTERS AND MANUFACTURERS OF FLORISTS' SUPPLIES.....

25 N. 4th Street, PHILADELPHIA, PA.



**JUNE**

**We Don't Quit Work**

BECAUSE WE HAVE YOU ALL SUPPLIED WITH DECORATION DAY GOODS.....

We are now ready for June with its weddings, school graduations and college commencements. To the wide-awake, "get there" florist this is one of the most profitable months of the year.

You need fresh baskets, in fashionable designs and modern effects. These we are now opening in new materials and combinations. There is money in these goods at the prices we shall quote you.

Consignments of New Cape Flowers just received. Ribbon letters, Inscriptions, Cycas Leaves, Cycas Wreaths, Doves and Sheaves.

A Big Assortment. Send for Catalogue.

**H. BAYERSDORFER & CO.,**

50-52-54-56 North Fourth St., - PHILADELPHIA, PA.

ESTABLISHED 1866

**EMIL STEFFENS**

SUCCESSOR TO N. STEFFENS AND STEFFENS BROS.



**SMALL GREEN GALAX**

For use with... VIOLETS

Stiff, wiry stems. Work up beautifully. Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000. ....ADDRESS....

**HARLAN P. KELSEY,**  
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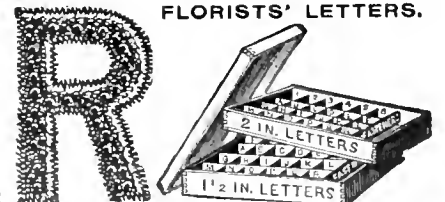
**HARDY CUT FERNS**

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

**H. E. HARTFORD'S,** 18 Chapman Place, BOSTON.

**Boston Florist Letter Co.**

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$5.00. Script Letters, 24 Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

**N. F. MCCARTHY,** Treas. and Manager,  
84 Hawley St., BOSTON, MASS.  
Mention American Florist.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

AUGUST KHOTERT, of New York, is making a western trip.

LIMA BEANS for contract show even more advance in price than the common garden varieties.

CHAS. F. MUTH, seedsman, of Cincinnati, and prominent there for twenty-five years, died last week.

RECENT advices from the blue grass region of Kentucky indicate that the new crop will probably be from 25% to 40% less than last season.

The seed tests to be made by the United States Department of Agriculture after July 1, are likely to become of serious interest to the trade.

VISITED CHICAGO: W. J. Langbridge, Harry H. Hammond, who will locate at Bay City, Mich.; A. J. Joiner, of the Boston house of Jos. Breck & Sons' Corporation.

THE American Seed Trade Association will hold its sixteenth annual meeting at Old Point Comfort, Va., beginning Tuesday, June 14. A good attendance is expected. Full particulars as to routes, etc., can be had on application to Secretary S. F. Willard, Wethersfield, Conn. A rate is made from New York City of \$13 for the round trip, with a thirty day limit. Western members not going via New York are recommended to use the Chesapeake & Ohio R. R.

Buffalo.

TRADE QUIET.—A CLUB MEETING AT CORFU ADOPTS THE SCHEDULE FOR THE CHRYSANTHEMUM SHOW.—NOTES OF FLOWERS AND PEOPLE.

Trade was quiet during the past week while flowers were plentiful, roses on Saturday being almost a glut at the wholesale houses.

The florists went to Corfu Thursday, had a fine time and transacted some important business. On arrival Wm. Scott had dinner for all at the dining rooms of Mr. Taylor, after which the guests journeyed to the greenhouses of T. A. Webb. Many were surprised at the extent of his glass and complimented him on the appearance of his place. The party was then taken to Mr. Scott's greenhouses and were shown the Genesee, Pingree and Jubilee. The Genesee were grand, and he may well feel proud of his stock. The meeting was then called to order by President Scott. Those present were D. B. Long, W. T. Kasting, S. A. Anderson, Wm. Legg, P. Scott, A. Scott, W. A. Adams, S. J. Rebstock, A. C. Wasson, W. W. Borch, L. L. Cook and our genial friend George Lamourt of Wilkesbarre. The club adopted with a few amendments the schedule of the chrysanthemum show as reported by the committee. Other business of minor importance was dispatched before the meeting adjourned.

The show made in the different stores last week was a credit to all and showed plainly that new store, large windows and good stock will be the only things seen in Buffalo from now on.

American Beauties are not as good as they were a week ago. Lily of the valley and sweet peas are in large supply.

Mr. and Mrs. George Lamourt, of

Wilkesbarre, were here for several days last week. Mr. Kasting gave them a drive around the city and out to see Prof. Cowell at South Park. W.

Lawn Mowings.

In reply to your correspondent "R. U.," it is rarely necessary to use a gathering box on lawn mowers before the middle of August and during September and October, when the reduced sun power and heavy dews prevent the mowings from withering promptly. At those times the grass is apt to lie around in tufts all over the lawns and prove decidedly slovenly in appearance. On small lawns the rake may be used, but it is not a satisfactory tool, because it pulls over the coarse grasses, and gives the whole surface the appearance of a horse whose coat has been curried the wrong way.

Trenton, N. J. JAMES MACPHERSON.

For a good clean lawn, healthy well grown grass is a necessity, and it is fair to presume that such treatment is sought which will maintain the quality. It is a common practice to sow oats with grass seed in making a new lawn, but it is best to give all the light and nutriment possible to the young seedlings and not oblige them to crowd their way between leaves that are not desirable. What is true of weeds or grain is equally true of grass where strewn over the growing plants. All other necessary conditions provided, remove the clippings as early as possible; but many lawns are benefited by allowing the clippings to remain, and in such cases it seems to be the least of two evils. I think this answers the question as explicitly as it has been put, but will extend reasoning further if desired. C. B. W.

TO IMPORTERS!

HAERENS BROS.

From SOMERGEM near Ghent, Belgium

SPECIAL Growers and Exporters of Azaleas, Palms, Arancarias and other decorative plants, take pleasure to inform you that their Mr. AUG. HAERENS is now on his annual visit through the United States. The stock he offers is immense, of best quality and at most reasonable prices. Their New Azaleas will be the favorites of the future. Write for price list and special offer.

AUGUST HAERENS CARL OF ... VANDERGRIFT CO. 66 Beaver St., New York City.

CLUGAS & BODDINGTON CO.

Importers and Exporters of

Seeds, Bulbs & Plants,

501 TO 503 W. 13TH ST.,

NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

"BEST OF ALL" TOMATO (FOR FOREIGN)

"ENGLISH" MELONS (FOR FOREIGN)

FLOWER SEEDS FOR FLORISTS

Catalogues on application.

WEEBER & DON, Seed Merchants and Growers,

111 Chambers St., New York, N. Y.

SEEDS LAWN GRASS \$12.00 per 100 lbs.

Best Quality Ever Offered. Retailer 30c lb.

J. CHAS. McCULLOUGH, SEEDSMAN,

12 CLEANER AND JOBBER GRAHNS BREDS

Second & Walnut Sts., Cincinnati, O.

Send for Illustrated Catalogues.

"A good ad. is like the kiss of the sun that brings the daisies above the ground."—Marco Morrou.

There's as much truth as poetry in the above quotation, and I trust there's more truth than poetry in the advertising of Yours truly,

G. C. WATSON.

I try to make my ads. good—that is: truthful and attractive, and I find the response abundant and sure. My advertising pays me well because my interest in my customers does not begin and end with, "please remit." If my goods don't pay my customers to handle, I would rather not sell them. I want no one-sided trading.

My Bid for Bulb Orders:

WATSON'S LILY BULBS FROM JAPAN



LONGIFLORUM PURE STOCK. SOUND AND WELL RIPPENED.

Let's see how many "daisies" this one will start!

I have 3 sizes Japan Longiflorum—5 to 7, 7 to 9, and 9 to 10 inches, but as the large size is in short supply, I can book same **only when some of the other two are taken**, and I advise early orders, as there is a run on the Japan Stock this year. Delivery September 25th to October 15th, 1898. Prices guaranteed. I will be pleased to have a list of your wants in this item; also in **Harrisii, Romans, Paper Whites, Dutch Bulbs, Valley**, etc. Let me hear from you. All "daisies," large or small, receive the same careful attention. Address all communications to Juniper and Walnut Sts., Philadelphia, Pa.

G. C. WATSON.

Seed Stores and Flower Stores..

can profitably handle our ODORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed.....

We furnish **Pure Bone Meal** for florists use. Unanalyzed analysis... Ammonia ..... 5 per cent. Bone Phos..... 55 per cent. Write for sample and prices.....

THE WALKER FERTILIZER CO. Clifton Springs, N. Y.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.



# DECORATION FLOWERS

**FLORISTS  
HAVING A SUR-  
PLUS  
OF FLOWERS  
OF  
ANY KIND  
CONSIGN TO  
US.**

## In Abundance!

**GIVE  
US YOUR  
ORDERS  
EARLY  
AS  
POSSIBLE**

All leading varieties of Roses, Carnations, Paeonies, Lilies, Sweet Peas, Tulips, Lilac, Valley, Daisies, Gladioli, Mignonette, Narcissus, Pansies, Asparagus, Smilax, Ferns, Etc., Etc.

## VAUGHAN, McKELLAR & WINTERSON,

45-47-49 Wabash Ave., Chicago.



**RAFFIA** BEST QUALITY. LONG MADAGASCAR Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts

In bale lots (about 225 lbs.) at 8c  
100 lbs. or over at..... 9c  
50 lbs. or over at..... 10c  
25 lbs. or over at..... 11c  
10 lbs. or over at..... 12c  
Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

### Grafting Wax

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut Streets, Philadelphia, Pa.

**G. C. Watson,  
Seedsman.**

## NOW READY

THE AMERICAN FLORIST COMPANY'S

# DIRECTORY

Of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and All Names ALPHABETICALLY.

FULLY REVISED TO DATE WITH UPWARDS OF

## 3,000 New Names

Price Two Dollars.  
In Flexible Leather Binding, Three Dollars.

American Florist Company

324 Dearborn Street,  
Chicago, Ill., U. S. A.

## Dutch Bulbs

HYACINTHS. TULIPS. CROCUS. ETC.  
RUDOLPH VAN TIL & CO.,  
Hillegom, Holland.

American Representative  
**L. C. BOBBINK, Rutherford, N. J.**  
ASK FOR CATALOGUE.  
Mention American Florist.

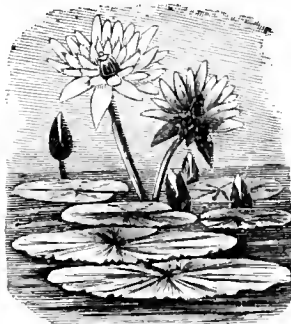
## BULBS For FLORISTS.. For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, - HOLLAND.

## CHINESE PRIMROSE ...SEED...

Greatly improved and well-known to us of extra fine strains. Packets put up specially for Florists, of best single and double varieties, 40 seeds \$1.00. Plants ready in August. Cineraria seed of large flowering dwarf varieties in choicest mixture, pkt., 25c; 6 pkts., \$1.00; Primula Obconica, pkt., 1000 seeds, 35c. Primula floribunda, fine yellow, pkt., 25c.

JOHN F. RUPP, - Shiremanstown, Pa.



## WATER LILIES....

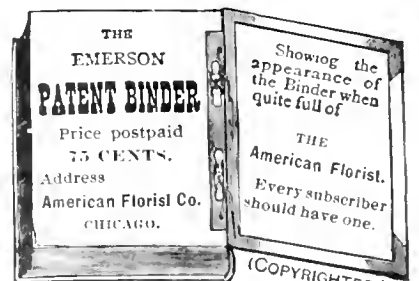
We are growers and sell at growers' prices.  
Stock guaranteed.

### The White Japan Lotus NYMPHAEA SUPERBA

AMERICAN LOTUS..... \$20.00 per 100.  
NYMPHAEA MARLYCE CHROMATELLA..... 25.00 per 100.  
NYMPHAEA ODORATA..... 8.00 per 100.  
NYMPHAEA ODORATA ROSEA..... 25.00 per 100.

All other stock in proportion. We have every Water Lily and Aquatic worth growing. Catalogue free.

**GEO. B. MOULDER, Smith's Grove, Ky.**



THE  
EMERSON  
**PATENT BINDER**  
Price postpaid  
75 CENTS.  
Address  
American Florist Co.  
CHICAGO.

Showing the  
appearance of  
the Binder when  
quite full of  
  
THE  
American Florist.  
Every subscriber  
should have one.

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**Hail Notes.**

Hail losses are reported from Park Ridge, Ill.; Mechanicsburg, Pa.; Abilene, Kan.; Franklinton, Md.; Iowa City, Iowa; Madison, Wis.; Oconomowoc, Wis.; Rockford, Ill.; Muncie, Ind.; Marshalltown, Iowa, and Colorado Springs, Colorado. The Florists' Hail Association will be called upon pay over \$7,000 to policy holders in these cities.

TORONTO, ONT. — The Public School Board has let the contract for its spring supply of bedding plants to Miller & Son, of Bracondale, for \$205, or about two cents per plant.

# ASPARAGUS SPRENGERII

From 2-inch pots, good stuff, per 100, \$5.00.....

- CANNAS** A good line.
- Ficus Elastica**, true, large leaf variety, 6 inch pots, 20 inches high or 50¢ each.
  - Crimson Rambler Roses**, extra fine, bushy plants, in 4-inch pots, will soon bloom, per dozen, \$2.00; per 100, \$15.00.
  - Cycas Revoluta**, dormant stems, size from 3 to 10 lbs., 25 lbs. pots 12 in. to 100 lbs. lots, \$10.
  - Clothilde Souper**, the great pot rose, our stock is A No. 1, 2-in. or \$3.00; 2 1/2-in. or \$4.00; 3-in. or \$6.00; 3 1/2-in. or \$9.00 per 100.
  - Dahlias**, 2 1/2-in. pot plants, in named varieties, per 100, \$5.00.
  - Pelargoniums Mme. Thibaut**, Mrs. Robt. Sandford, Edward Perkins and Dorothy, strong 3-inch stock per doz. \$1.50; per 100, \$12.00.
- For Carnations, Chrysanthemums, send us your list; we have all kinds.
- H. P. Roses**, dormant 2 year extra fine stock @ \$12.00 per 100.
  - Clematis**, Ampelopsis Viticli, Hollyhocks, Promies, Hydrangeas P. G., etc., we have in large quantities; write us for prices.

## FOR IMMEDIATE DELIVERY SURPLUS BARGAINS

- Tuberoses...**
- |   | Per 100 | Per 1000 |
|---|---------|----------|
| Dwarf Excelsior Pearl, strictly first size..... | \$ .85  | \$ 7.50  |
| 3000 for \$19.00.....                           |         |          |
| Second size.....                                | .50     | 3.50     |
| All bloomers, 3000 for \$9.00.....              |         |          |
| Tall Double first size.....                     | .75     | 6.50     |
| Variegated Leaved first size.....               | 1.00    | 10.00    |

Also a good stock of Caladium Esculentum, Begonias, Gladiolus, etc., at close prices.....

### VAUGHAN'S SEED STORE

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

## BOUGAINVILLEAS.

After May 27 we can supply extra large plants of Bougainvillea glabra ( ) and glabra Sanderiana, these are in 8 to 12 inch pots and now in full flower, which will be cut this coming week. These plants can have all the soil shaken off and be shipped at proportionately low cost. Write for prices.....

THEO. F. BECKERT, GLENFIELD, PA.

We mail 7 plants of above for \$1.00. Please credit our florist if you order from this adv.

# Orchids..

LAGER & HERRICH, - Summit, N. J.

## Good Stock! Low Prices!

**CANNAS** Strong plants of Alphonse Bonavier, Chas. Henderson, Egan-dale, Paul Marquant, Wm. Elliott Bisson, Sec. Stewart, Flamboyant, \$4.00 per 100; \$35.00 per 1000.

**COLEUS** Crimson Verschaffeltii, Golden Queen and Golden Boder, \$2.00 per 100; \$18.00 per 1000.

**Geraniums** Double Gen. Grant and S. A. Nutt, 2 1/2-inch pots, \$3.00 per 100; \$28.00 per 1000; extra good, 4-inch pots, \$7.00 per 100; \$65.00 per 1000.

**Cobaea Scandens**, 4-inch pots ..... \$6.00 per 100.

**JOHN SCOTT,**  
KEAP STREET GREENHOUSES,  
BROOKLYN, N. Y.

## Asparagus Sprengeri

50,000 Plants in 2 1/2-inch pots, \$5.00 per 100, express; 24 for \$1.50 by mail. Specimens for 2-inch pots, \$6.00 to \$12.00.....

**A. Blanc & Co.**  
PHILADELPHIA.

# PALM

Seed. FRESH ON HAND

	per 100	1000	3000
LATANIA BORBONICA.....	\$ .50	\$ 3.00	\$ 7.50
ARECA LUTESCENS.....	1.00	7.50	20.00
ASPARAGUS PLUMOSUS.....	1.50	12.50	35.00
NANUS.....	1.00	7.50	20.00
PHOENIX RUPICOLA.....	1.00	7.50	20.00
RECLINATA.....	1.00	7.50	20.00

**J. L. SCHILLER,**  
404 East 34th Street, NEW YORK CITY.

## PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST

**Geo. Wittbold**  
1708 N. HALSTED ST.  
CHICAGO

### ROBT. CRAIG & SON

## Roses, Palms

and Novelties in Decorative Plants,  
Market and 49th Street, PHILADELPHIA

## Rose Hill Nurseries

LARGEST Growers of Palms, Orchids, Stucco and Greenhouse plants, Ferns, Crotons, Fumblings

SIEBRECHT & SON, New Rochelle, N. Y.  
New York Office, 409 Fifth Ave.

## Crotons...

IN VARIETY

Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Linenta, Andreanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.

Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$12 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$6 per 100.

**Edwin Lonsdale,**

Florist,  
CHESTNUT HILL,  
PHILA., PA.

## FINE PALMS

ARECA LUTESCENS

3 plants 5-in. pot, 18 to 20-in. high, per 100, \$40.00  
3 plants, 10-in. pot, 48 to 50-in. high, each..... 4.00  
1 plant, 2 in. pot, 8 to 12-in. high, per 100, 5.00

COCOS WEDDELIANA

1 plant, 4-in. pot, 15 to 18-in. high, each..... \$ .50  
1 plant, 5-in. pot, 24-in. high, each..... .75  
1 plant, 5-in. pot, 30-in. high, each..... 1.00

KENTIA BELMOREANA

2 1/2-in., 3 leaves, 10 to 12-in. high, per 100, \$20.00  
3-in., 4 or 5 leaves, 15 to 18-in. high, per 100, \$25.00  
5-in., 4 to 6 leaves, 20 to 24-in. high, each..... 1.00  
All measurements from top of pot.

**JOSEPH HEACOCK, WYNCOTE,**  
PHILA., PA.  
Mention American Florist when writing.

## STRONG STOCK TO POT ON NOW.

### JOHN H. LEY,

GOOD HOPE, - WASHINGTON, D. C.

Offers clean well rooted plants as below:

- |  | Per 100.   |
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| Areca Lutescens, 2 ft. thick, 4-inch.....                              | \$25.00    |
| Orange Trees, 2 ft., full of green fruit, 5-in. pots.....              | 25.00      |
| Phoenix Reclinata, 4-inch pots.....                                    | 8.00       |
| Phoenix Reclinata, 3-inch pots.....                                    | 5.00       |
| Ferns, from date, 8 good sorts, mailed.....                            | 1.25       |
| \$10.00 per 1000 by express  |            |
|  | Per dozen. |
| Oreodoxa Recla, 5-inch, 3 in a pot, (Royal Palm) 3 to 4 feet high..... | \$ 8.00    |
| Phenacophorum Sechellarum, 4-inch, nice plants of this rare palm.....  | 24.00      |
| Lomaria glabra, 4 inch.....  | 1.00       |
| Nephrolepis d. furcans, 5-inch, extra large.....                       | 5.00       |
| ..... 6-inch, fit for 8 inch.....                                      | 9.00       |
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| Well packed. Cash with order.  |            |

## Asparagus Sprengeri

\$5.00 per 100  
Cash with order. Seedlings  
American Rose Co., Washington, D. C.

**CYCAS** REVOLUTA. The true, long-leaved variety. Freshly imported, dormant stems. Run from 6 to 9 inches in length and weigh from 5 to 10 lbs. each. Note the price: 10¢ per lb., \$8 per 100 lbs., \$75 per 1000 lbs., 50 lbs. at 100 rate; 500 lbs. at 1000 rate. Special prices on larger quantities.

### UNITED STATES EXOTIC NURSERIES

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We trace American Florist.

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THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price \$ 1.00 in flexible leather binding, \$3.00.

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324 Dearborn St., Chicago, Ill., U. S. A.

# DREER'S SPECIAL OFFER ...OF... CANNAS



We offer the following leading varieties, established plants, in 3 inch pots:

	ft.	100.		ft.	100.
Alphonse Bouvier, crimson.	5	\$4.00	Florence Vaughan, spotted yellow	4	\$5.00
Amie P. G. Pegeaux, pomgranate	3½	6.00	Geol. St. Hilaire (bronze), scarlet	4½	4.00
Beaute Poitevine, rich crimson.	3	10.00	J. C. Vaughan (bronze), vermillion	4½	4.00
Baron de Sandrans, light yellow.	3½	4.00	Mme. Crozy, scarlet, gilt edge	3½	4.00
Chas. Henderson, crimson.	3	4.00	Mme. Pichon, yellow striped	3	4.00
Comte Bouchaud, yellow spotted.	4	4.00	Madagascar, spotted nebula	3½	8.00
Columbia, rich crimson.	3	10.00	Pres. Chandon, deep orange	3½	4.00
Deuil St. Grey (bronze), orange red	5	4.00	Papa, fine cherry red	3	4.00
Egandale (bronze) cherry red	4	4.00	Queen Charlotte, scarlet, gilt	3	5.00
Explorateur Crampel, orange	4	4.00	edged	3	5.00
Furst Bismarck, intense crimson.	3½	6.00	Souv. d'Antoine Crozy, gilt edge	3	6.00

We call special attention to the following "sets" of new varieties. They are all of great merit and should be tried by everyone interested in Cannas:

### Select Set of Six New Cannas for 1898.

Goliath, the finest crimson extant.  
 J. O. Eisele, vermilion scarlet.  
 Furst Von Hohenlohe, the best yellow.  
 Menelek, rich nasturtium red.  
 Sam Trelease, nearest to a pure scarlet.  
 Sunray, striped red and yellow.  
 One each of the above six for \$3.00.

### Set of Eight Best Italian or Orchid Flowered Cannas.

This set is the "cream" of over 30 varieties introduced last year at \$3.00 to \$5.00 each. **America**, orange salmon, feathered and veined scarlet, bronze foliage; 35c. each. **Allemania**, light and dark salmon, golden markings, flowers immense size; 30c. each. **Africa**, orange salmon, deepening to scarlet, rich bronze foliage; 30c. each. **Asia**, bright yellow with red spots in throat; 30c. each. **Aphrodite**, salmon, edged and feathered light yellow; 30c. each. **La France**, similar to America, but with darker foliage; 30c. each. **Pandora**, salmon, marbled with scarlet, bronze foliage; 30c. each. **Suevia**, yellow, with red dashes, very large flower; 50c. each. One each of the eight varieties, \$2.00.

Set of Six Best of Crozy's Introduction - Depute Ravarin, rich garnet. Mme. Leon Leclerc, scarlet, tipped and edged gold. Jos. Combet, velvety cardinal. R. Pearson golden, dotted red. Mme Favrichon, carmine, with orange sheen. Sec Chabanne, rich salmon, distant shade, 35c. each, or the set of six varieties for \$2.00. Full descriptions of the above found on pages 26 to 29 of our current Wholesale Catalogue.

**HENRY A. DREER, - 714 Chestnut St., PHILADELPHIA.**

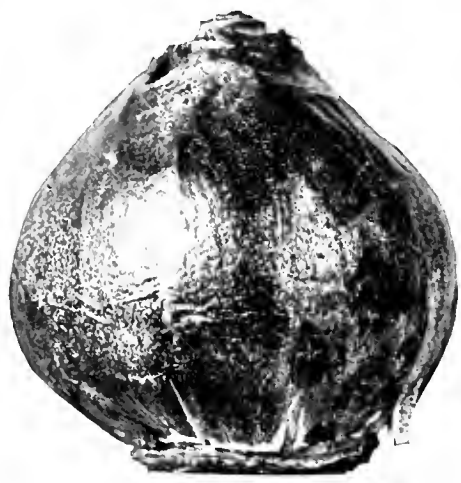
## Kennicott Bros. Company

Wholesale Cut Flowers and Florists' Supplies  
 88 WABASH AVENUE, - CHICAGO, ILL.  
 Long Distance Phone, Express 466.  
 We quote as follows for the week of May 23, 1898:

P. AND D. AT COST.	PRICE PER HUNDRED.
Am. Beauties, medium.....	5 to 8
"    tancy, fair length	8 to 12
"    long stem	15 to 25
Metaors, extra select.....	4 to 6
Brides, Maids, extra select...	4 to 6
Parles, extra select.....	3 to 5
Rosaa, our selection.....	3.00
Carnations, extra select.....	2 to 3
"    good, average stock	1.50 to 2.00
"    Whita.....	2 to 3
Harrisii.....	7 to 8
Callaa.....	10 to 12½
Valley.....	2 to 4
Cape Jessamine.....	1 to 2
Narcissus.....	1 to 1.50
"    double.....	2.00
Smilax.....	.15
Adiantum.....	.75 to 1.00
Asperagus, per string.....	.40 to .50
Bougainvilleas, per spray.....	.20
Calax.....	\$1.50 per M
Common Ferns.....	2.50 per M
Common Ferns, 500 at M rate	.30
Marguerites, White.....	.40 to .60
Marguerites, Yellow.....	.60 to .75
Iris.....	2 to 4
Tulips.....	2 to 5
Paeonias, extra quality.....	4 to 5
Paeonias, Com.....	3.00

Above prices subject to change without notice. All flowers in season at lowest market rates. FLORISTS' SUPPLIES and WIRE WORK a specialty. On WIRE GOODS we can discount OF OUR OWN OR ANY OTHER LIST. Write for particulars. Store open week days until 6:30 p. m.; Sundays and holidays until noon only.

Respectfully yours,  
**KENNICOTT BROS. COMPANY.**  
 Please Mention The American Florist



## Prices... NOW READY FOR

# FALL BULBS

Ask for a copy. We average very early deliveries.

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## To Seedsmen, Nurserymen, Florists, Landscape Gardeners and others:

The extensive collection of Foreign Grape Vines of our manager, Mr. John G. Gardner, has been transferred from Jobstown, N. J., to our Nurseries at Stoke-Pogis, Pa., and all orders can now be promptly filled by addressing the undersigned. Descriptive catalogue mailed on application. Those in the trade having wealthy clients, with hot or cold greenhouses, can procure for them, from this collection, the latest and best acquisitions, as well as the standard sorts. On and after JUNE 15th the plants will be ready to ship in pots, well-established, and in first-class condition.

**STOKE-POGIS NURSERIES, JUNIPER AND WALNUT STREETS, PHILADELPHIA.**  
 G. C. WATSON, General Agent.

## Annex Paying Customers....

By advertising your surplus stock of every kind in the paper that is read by the growers  
**THE AMERICAN FLORIST - A Peerless Drummer.**

**Outdoor Propagation of Roses.**

Will some one kindly tell me through your columns, the best way to propagate roses outdoors?  
S. J. Y.

In the extreme south many florists consider layering the most satisfactory method for outdoor propagation of roses, and in a climate where the rose makes such vigorous growth in a season this system certainly has much to recommend it. Where there is abundant growth suitable for layering it would be no difficult task to propagate and have ready for sale in a very short time any quantity of large salable plants. The southern florists usually layer directly into pots; they are plunged deep into the soil all around the plant that is to furnish the layers, as many pots as there are available shoots. When they are all in position (and full of soil) a stout stake is put down firmly outside of but close to each pot, the shoots are bent over, a slit is made on the under side directly above the pot, the part cut is pressed down into the pot, covered with soil, and pegged down to hold it secure; the operation is completed by tying the end of the shoot to the stake. It is not a very difficult feat and need not necessarily consume very much time, besides if the weather is at all favorable success is reasonably certain. In a short time the shoot will have thrown out roots immediately above the cut and it can then be severed from the parent plant. The work is always done in the early fall, as soon as the wood is mature and climatic conditions are favorable. Cuttings of outdoor roses are sometimes rooted in a cold frame with just enough protection to keep off the strong sunshine, drying winds, and freezing cold. For the state of Georgia the early part of October would probably be the best season to put in the cuttings. This is a time honored mode of propagating, but for rooting hardy roses, either north or south, I would recommend in preference a hotbed and the summer months for the work. All that is required is a good deep frame facing north, plenty of stable manure, good sash and movable shade. Fill the frame with manure almost up to the glass and tread it thoroughly; cover with three inches of clean coarse sand; when the bottom heat registers 90° with a tendency downward put in cuttings, water thoroughly the first time, afterwards sprinkle and water as often as may be needed to preserve the foliage crisp and fresh. Keep frame close until roots begin to form; a little air morning and evening to carry off excessive moisture will be sufficient. Shade whenever sun shines, but at other times give full benefit of the light. Cotton cloth stretched on a frame gives about the right amount of shade and if it is suspended some distance from the glass so as to allow a circulation of air between the two, it will help materially in keeping down the temperature. With good cuttings from fairly well matured wood and good attention, a frame of this kind will root from eighty to one hundred per cent, according to variety. After potting, the plants should have the same treatment as regards shade, light and air for a few days as recommended for the cuttings.

PORT SIMPSON.

LIMBA, N. Y. Grove F. Rawson is editing for the *Advertiser* a department of horticulture which is attracting wide attention among amateur florists. In his column Mr. Rawson gives practical advice upon the culture of plants.

<b>YOUNG</b>	<b>ROSES</b>	<b>PLANTS</b>
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**ALL STOCK SENT OUT IS FIRST-CLASS IN EVERY RESPECT.**

From 2 1/2-inch Pots.	Per 100	Per 1000
AMERICAN BEAUTIES, Rooted Cuttings.....	\$5.00	\$40.00
BRIDES.....	3.00	25.00
BRIDESMAID.....	3.00	25.00
METEOR.....	3.00	25.00
KAISERIN.....	3.00	25.00
PERLE.....	3.00	25.00

TERMS CASH WITH ORDER.

**J. A. BUDLONG,** 37-39 Randolph Street, CHICAGO, ILL.

**40,000 FIRST QUALITY FORCING ROSES**

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating. Wooton, La France, American Beauty, President Carnot, 3-in. pots, \$8 per 100; 4-in. pots, \$12 per 100. Meteor, Kaiserin, Sunset, Bon Silene, Mermet, Perle, Gontier, Bridesmaid, Belle Siebrecht, Mme. Haste, Niphotos, Bride, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100.

**J. L. DILLON,** Bloomsburg, Pa.

**ROSES OWN ROOTS, DORMANT, FIELD GROWN**

IN COLD STORAGE IN CHICAGO.

No. 1, 2 to 4 feet, cut back to 2 feet  
Yellow Rambler (Aglaia)  
Hybrid Perpetuals,  
Mosses, Hardy Climbers  
and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager,**

1308-1310 Unity Bldg., - CHICAGO, ILLS.

**Do You Plant Beauties?**

Am. Beauties, 3 inch at \$5.00 per 100. Not cullings, but clean, strong, well grown stock and guaranteed free from all disease.....

**A. DONAGHUE,** 108 S. 16th Street, OMAHA, NEB.

**AMERICAN BEAUTY**  
Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100; \$70.00 per 1000.  
**EDWIN LONSDALE,**  
Wyndmoor, Chestnut Hill,  
Cash with order. PHILADELPHIA, PA.  
Money Order Office, Station 11, Phila.

**ROSES HANDY FOR WESTERN GROWERS**

Beauties, Brides, Maids, Meteors, Wootons and Perles, 2 1/2, 3 and 4-in. Strong, clean, healthy stock, cheap for cash, to clean up. If you want good stuff at prices to suit write us for prices at once. Address.....

**J. N. KIDD, Florist, St. Joseph, Mo.**

**Rose Plants...**

Fine Bride, Bridesmaid, Perle, Sunset and Meteor,  
2 1/2-inch Rose pots, \$3.00 per 100,  
3-inch pots, standard, 5.00 per 100

**W. J. & M. S. Vesey,**  
FORT WAYNE, IND.

**NOW READY!**

The American Florist Company's DIRECT-TO-ROSEY of Florists, Seedsmen and Nurserymen of the United States and Canada. Price \$2.00. In Flexible Leather Binding, \$3.00....

AMERICAN FLORIST COMPANY,  
124 Dearborn St., Chicago, Ill.

**Mrs. Robt. Garrett**  
NEW PINK FORCING ROSE  
Winner of 6 certificates, medal and silver cup. \$3.50 per doz., \$25.00 per 100. A fine stock of young chrysanthemums and carnations. Send for trade list describing above in detail.  
**H. WEBER & SONS, Oakland, Md.**

**H. P. ROSES**

FROM 2 1/2 INCH POTS.

Strong, thrifty, well established plants. General price \$4.00 per 100. Extra fine lot of Crimson Ramblers.....

**Jackson & Perkins Co.**  
NEWARK, NEW YORK.

**ROSES..**

2-in. per 100 3-in. per 100  
**Am. Beauties .. \$5.00**  
**Perle .. \$2.75 4.50**  
**Bridesmaid ... 2.75 4.50**

**MAPLEWOOD CUT FLOWER and PLANT CO.**  
PLEASANT HILL, MO.

**Memorial Rose**

(Rosa Wichuriana)

Strong field-grown plants,  
\$50, \$75 and \$100 per 1000

**SAN'L C. MOON,**  
MORRISVILLE, Bucks Co., PA.

**2-YEAR-OLD ROSES**

from 1-in. pots in variety, \$5.00 per 100.  
**CARNATIONS,** \$2.50 per 100 from 2 1/2-inch pots. Scott, Portia, McGowan; also all young roses and general stock.

**THE NATIONAL PLANT CO.**  
DAYTON, OHIO.

**Do You Need Young Rose Stock**

for planting, out of 3-in. pots. A dollar more on the hundred is nothing if you get better stock. Send 5c or \$1.00 in stamps for samples of what you want to

**GEO. A. KUHL,**  
.....PEKIN, ILL.

Mention this paper

**The Omaha Convention.**

Preparations are advancing smoothly and if the low rates of fare which are confidently expected should materialize, there is no reason why the Omaha meeting should not be the equal of any of its predecessors in interest and value. The local florists, although not primarily responsible for the selection of Omaha as the convention city, are fully aroused to the importance of the occasion and will not be found lacking in those hospitable qualities that characterize the profession in all places and at all times. They look forward with keen anticipation to the approaching visit of their fellows from other sections of the country and are prepared to give a good account of themselves as generous hosts. A bowling club has been formed and a challenge to the expert bowlers of other cities is about to be issued. Eleven of the Omaha florists have become members of the National Society since May 1.

The representatives of the executive committee of the S. A. F. found the ideal meeting place in the First Congregational Church, which has been selected as the headquarters of the society. The audience room is a beautiful place, spacious and luxuriantly furnished; parlors and reception rooms are connected with it, and the basement, 48x72 feet, will accommodate a moderate sized exhibition nicely. A rear entrance on the same grade as the basement gives convenient access for exhibits and there are plenty of suitable tables at the disposal of the society. The church is on the corner of 19th and Davenport streets, in one of the most attractive residence sections of the city and conveniently reached from all points.

Manufacturers and dealers in florists' requisites and equipments in the large eastern centers will make a great mistake if they do not take full advantage of this opportunity to get into communication with a new clientele. Many florists will be present on this occasion who have never heretofore visited a trade exhibition or had an opportunity to examine the latest devices and improvements in greenhouse appliances, and a valuable trade is bound to come to those who make the effort to open up this new and rapidly developing market for their goods. It is safe to assume that no previous convention has been favored with a more deeply interested and interesting local attendance than that of next August.

The matter of railroad rates is still under consideration and there is good reason to expect that in a few days it will be possible to announce the most favorable terms ever granted to the S. A. F. for its convention. The railroad officials, as well as the managers of the great Trans-Mississippi Exposition understand that upon a liberal policy in the matter of transportation will depend much of the success of the undertaking, and they will, without doubt, see that everything is done that can possibly be done to insure a large attendance.

W. J. STEWART, Sec'y.

**Meadville, Pa.**

August Krueger has enlarged and re-modeled his down-town flower store, and contemplates making extensive additions and alterations about his greenhouses, while a handsome and spacious conservatory will be added to his store.

Henry Krueger, who succeeded Ehrgott Bros. at Conneaut, O., reports a good trade all along the line. Two greenhouses for miscellaneous stock will be built during the coming summer.

HOMO.

**Waterbury, Conn.**

Improvements of one sort or another seem to be the order of the day and, such being the case, it goes without saying that business is brisk.

Alex. Dallas has again touched up his store, the improvement consisting of a handsome ice box with mirrored walls, and the introduction of electric lights, both in his store and in the adjoining conservatories.

Mr. Dallas' already extensive plant will soon be enlarged by two additional rose houses, one of which will be 21x150 and the other one 21x50. I hardly need add that up-to-date methods will be followed. A feature to be introduced is solid stone beds instead of the usual benches. These will be constructed in a way to insure

perfect drainage. A sight well worthy of seeing is Mr. Dallas' specimen *Arcalutescens*, *Pandanus utilis* and *Pandanus Veitchii*. The latter two are especially attractive, being decidedly the finest specimens of their kind I have yet seen, veritable giants with not a flaw or blemish to be found on any of the leaves. His American Beauties, Brides and Bridesmaids are superb.

R. S. Rasmussen reports trade good. He is cutting some fine carnations and roses, for which he finds a ready demand. It is likely that Mr. Rasmussen will make some alterations about his greenhouses.

HOMO.

LAKE PRESTON, S. D.—S. L. Keith, a practical nurseryman, has been employed to lay out the new city park.

**ORDER AT ONCE AND SECURE STOCK**

**CHRYSANTHEMUMS**

Rose Owen, J. H. Woodford, Dorothy Devens, G. F. Atkinson, Golden Trophy, T. B. Morse, Pres. McKinley, Western King, The Herriott, Surprise, Marcia Jones, Elvena, Miss Helen Wright, Belle of Castlewood, Chito, C. W. Ward, Mrs. S. T. Murdock, 75 cts. per dozen; \$5.00 per 100. Glory of Pacific, Maud Dean, Mrs. R. Crawford, W. P. Raynor, Modesto, Lenawee, Pride of Castlewood, Bonnafon, Ivory, Ruth Ellis, 50 cts. per dozen; \$3.00 per 100. Frank Hardy, T. H. Spaulding, Mrs. O. P. Bassett, The Yellow Fellow, Madeline Pratt, Mrs. C. H. Peirce, Merry Christmas, 35 cts. each; \$3.00 per dozen. Snow Queen, Pennsylvania, 50 cts. each; \$5.00 per dozen. W. H. Chadwick, \$1.00 each; \$5.00 per dozen.

**CARNATIONS**

Jno. Young, Bon Ton, Mrs. Jas. Dean, White Cloud, New York, Empress and Evelina, \$2.00 per dozen; \$10.00 per 100; \$75.00 per 1000. C. A. Dana, Mayor Pingree, \$5.00 per 100. Storm King, fine from soil, \$2.00 per 100; \$15.00 per 1000.

**CANNAS**

Pres. McKinley, Defender, Pres. Cleveland, Tarrytown, 50 cts. each; \$5.00 per dozen. Ami Pichou, Paul Marquant, J. D. Cabos, L. Bailey, Florence Vaughan, \$2.50 per 100. Eldorado, A. Billard, Count de Bouchard, \$4.00 per 100.

For full description send for our 1898 wholesale list.

**THE COTTAGE GARDENS, Queens, N. Y.**

**CANNAS** In extra fine strong plants from 4 inch pots **CANNAS**

Duke of Marlboro, Defender, Pres. McKinley, 50 cents each; \$4.50 per doz. Gloriosa, Philadelphia, Alemannia, America, \$2.00 per doz.; \$12.00 per 100. Flamingo, Pillar of Fire, Robert Christie, \$1.75 per doz.; \$10.00 per 100. Columbia, Mrs. Fairman Rogers, Golden Queen, \$1.25 per doz.; \$7.00 per 100. Alphonse Bouvier, Austria, Chicago, Egandale, Florence Vaughan, Italia, J. D. Cabos, Mme. Crozy, Paul Marquant, Queen Charlotte, Rosalind at \$6.00 per 100.

**CHRYSANTHEMUMS**

All the new and standard varieties in A-1 stock ready for planting, including Alice F. Carey (pink), Dolores (yellow), Miss G. Vanderbilt (white), Robt. G. Carey (white), Spotswood (yellow), Frank Hardy and Mrs. H. Weeks, all at \$20.00 per 100, net, for cash.

JOHN N. MAY, - SUMMIT, NEW JERSEY.

**Chrysanthemums**

Mrs. S. T. Murdock, Mme. F. Bergman, Whilldin, H. L. Sunderbruch, Eda Prass, Inter Ocean, V. Morel, Childs, John Shrimpton, Nivens, Golden Wedding, Mutual Friend, C. B. Whitnall, Bonnafon, Robinson, Philadelphia, Dailledouze, Ivory, Yellow Queen and others, 2 1/2 and 3-inch pots, \$2.50 per 100. . . . Mrs. A. F. Wienold

McDONALD & STEELE, Crawfordsville, Ind.

20c each, \$1.50 per doz., \$10.00 per 100.

**Chrysanthemum PRESIDENT GRAHAM**

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.

St. Louis.

PLANTING BUSINESS OPENS WITH A RUSH WHICH OVERWORKS THE FLORISTS.— CUT FLOWER PRICES GO DOWN.—DULL TRADE.—THRIP AND ITS RAVAGES.

Bright weather seems to have come at last to stay. Planting out has been delayed and all outside work interfered with by the cold, wet spring, but when planting commenced it came with a rush, everybody wanting their work done at once. Complaints without number have resulted from the overworked florists not being able to do half a dozen things at the same time.

Planting in the parks is being pushed and the work is giving quite a summer air to the grounds. Quite a lot of new planting is being arranged for at Forest Park, and the older parks have about the usual amount of bedding; the changes being made are mostly in design and location of beds.

Market trade this season has not been as satisfactory as was expected, and all trade may be said to have been more or less unsatisfactory. In cut flowers one illustration will suffice. One of the principal fakirs doing business down town has announced the fact that he is going to close out and leave town as there is not enough doing to enable him to make a living.

Stock of all kinds is accumulating, although whatever comes in, either roses or carnations, that is strictly first-class sells out at good prices, roses bringing as high as 6 cents and carnations bringing 3 cents. There is, however, any quantity of stock going at nominal prices. Carnations were 1 cent, with a drop on 500 or 1,000 orders. Common roses command from 1 to 3 cents with discounts on large lots. Paeonies are over plentiful and move slowly. Gladioli, too, are slow sale. Sweet peas move better than most stock, there seeming to be more call for them.

Almost all roses, and quite a few of the other varieties of flowers, coming to this market show by their appearance that the thrip is becoming more and more of an injury. It is only about three seasons ago that thrips appeared here in sufficient numbers to cause damage to stock, and then only in one or two places. Since then, however, they have spread with great rapidity and it is now an exception to find a place that is free from their ravages. There seems to be no way of keeping them in check or destroying them without injuring the roses. Tobacco has been tried, both in fumigating by burning and by the use of the extract, and fair success is reported, although smoking hurts the flowers and the extract costs about what you get for the flowers after they are saved. R. F. T.

ERIE, PA.—The Tegler millinery establishment gave its first semi-annual flower show and sale on May 19 and 20. It was a most successful departure.

BALTIMORE, MD.—Michael Boylan, propagator at Patterson Park, has a novel flower design nearly ready. It is a huge calendar plat of the month of June. The figures and letters are two feet square and the bed required 2,000 plants.

SALT LAKE CITY, UTAH.—There was a very interesting meeting of the Salt Lake Florists and Gardeners' Society on May 15. There was a large attendance and papers were read by P. T. Huddart upon chrysanthemum culture, by J. C. Swane upon the growth of vegetables, by Park Keeper Shubow on bedding plants, and by Edw. Patten on the care of lawns.

HERR'S PANSIES

SEND FOR REASONS WHY THEY ARE THE BEST.

...SEED...

Ready now at \$1.50 per 1/2 oz.

...PLANTS...

September to January; 75c per 100, \$1 per 1000.

...SMILAX...

Sample plants for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

FINE PLANTS

VERBENAS

IN BUD AND BLOOM.

Many Fine Varieties added to Our Collection.

Best Mammoth ..... per 100, \$3.00; per 1000, \$25.00
General Collection ..... 2.00; 20.00

ROSES.

American Beauty, 3-inch pots ..... per 100, \$10.00
Bridesmaid, Bride, Perle,
Meteor, Bon Silene, Watteville,
La France, Sunset, Mermet.

Price from 2 1/2-inch pots, \$5.00 per 100; \$40.00 per 1000.
Ever-blooming and Polyantha, in bud and bloom, from 3 1/2, 4 and 5-inch pots, \$10.00, \$15.00 and \$20.00 per 100
Hybrid Perpetual, in bud, from 5-inch pots, strong, \$25.00 per 100.

CHRYSANTHEMUMS.

50 fine varieties from 2 1/2-inch pots, \$3.00 and \$4.00 per 100. Send for list of varieties.

MISCELLANEOUS PLANTS.

Ready for immediate sales. 100.
Anthemis Coronaria, from 2 1/2-inch pots, \$5.00
Alternanthera, all leading varieties ..... 3.00
Ageratum, blue and white ..... 3.00
Carnations, from 4-inch pots, fine stock ..... 12.00
Coleus, leading sorts, 2 1/2-inch pots ..... 3.00
Ceraniums, double and single, 4-inch pots ..... 8.00
Heliotrope, from 3-inch pots ..... 4.00
Ivy, fine variety, 4 1/2 " ..... 8.00
Hydrangea Otakaa, 5 in., bushy ..... 25.00
Fuchsias, double and single, 3 1/2-inch pots ..... 8.00
Moonflower, 2 1/2-inch pots ..... 4.00
Pelargoniums, 2 1/2-inch pots ..... 6.00
Salvia Splendens and Bedman, 2 1/2-in. pots 3.00
Vinca Variegata and Eleazar, 1 inch pots ..... 10.00
Violets, Marie Louise, 2 1/2-inch pots, \$25.00 per 1000, \$3.00 per 100
Pansies, in bud and bloom \$2.00 per 100; \$15.00 per 1000.

All the above is from stock in condition for immediate sales.

WELL ESTABLISHED CARNATIONS FROM SOIL.

C. A. Dang ..... \$5.00
Mrs. McCurney ..... \$3.00
Harrison's White ..... \$2.50
Wm. Scott ..... \$2.00
Lizzie McCowan ..... \$2.00
Portia ..... \$2.00

New Trade List on application.

WOOD BROS., Fishkill, N. Y.

When writing mention American Florist.

NEW WHITE PERPETUAL

BLOOMING CARNATION

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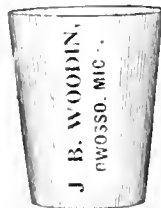
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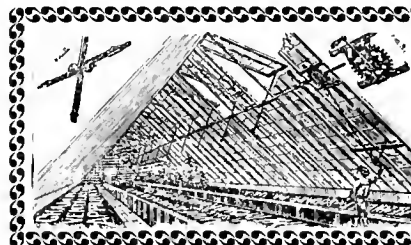
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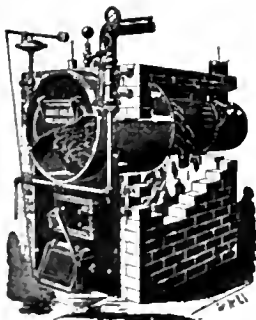
ST. PAUL, MISS.—Prof. D. T. McDougal, of the botanical department of the University of Minnesota, leaves on May 28 for Flagstaff, Arizona, to devote the summer to the study of mountain and desert plant life, along which line he has made previous research.

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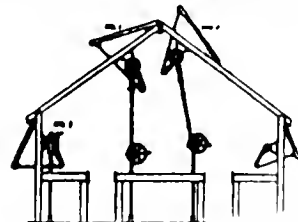
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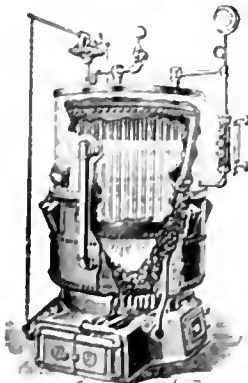
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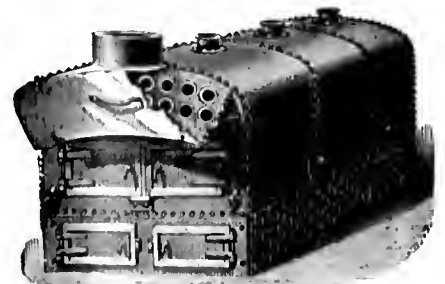
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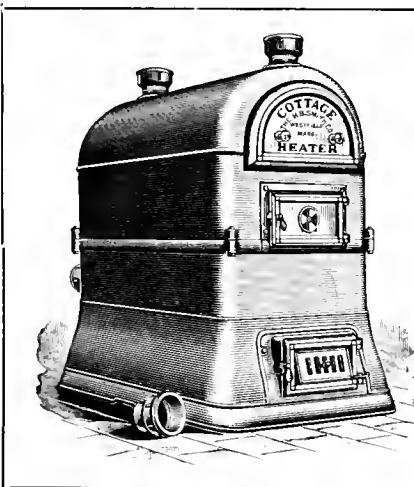
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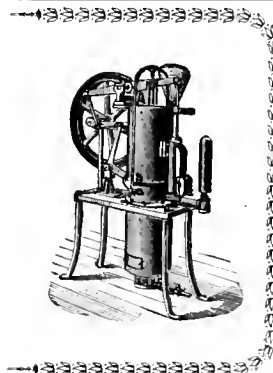
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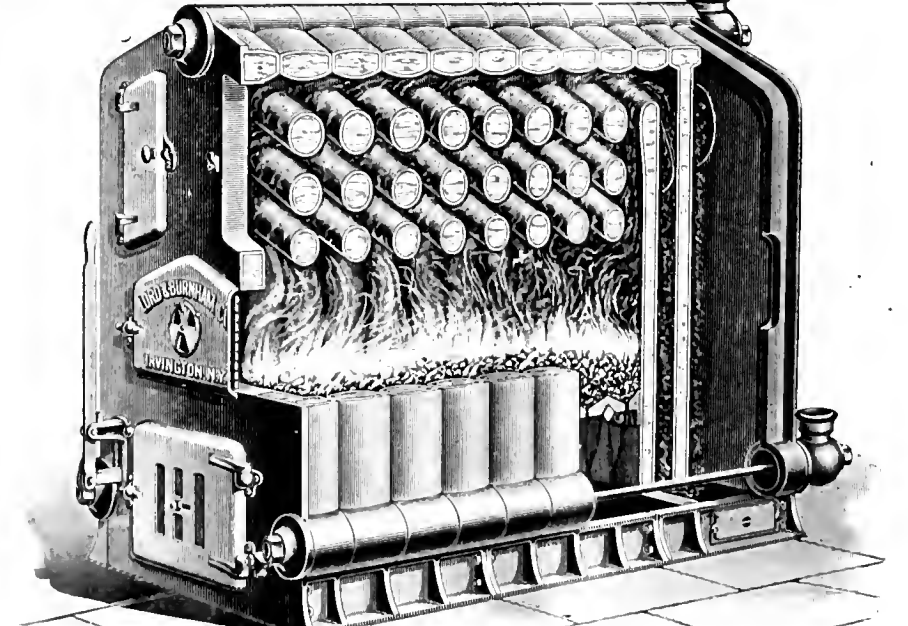
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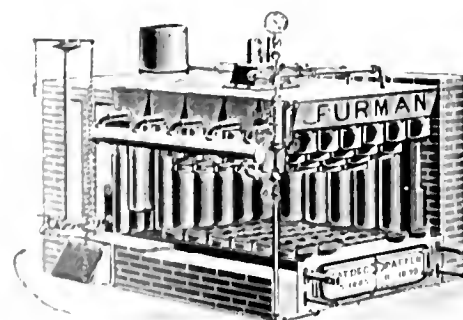
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Vol. XIII.

CHICAGO AND NEW YORK, JUNE 4, 1898.

No. 522.

## THE AMERICAN FLORIST

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### SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

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### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

### CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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OUR NEW DIRECTORY will be mailed to subscribers as speedily as possible.

CHARLOTTE, MICH.—Mrs. E. T. Church, florist, has put out five ornamental beds at the waterworks grounds.

NASHVILLE, TENN.—The Nashville, Chattanooga & St. Louis Railway has bought the Centennial greenhouse and its contents. Other would-be purchasers awoke too late.

### Adherence to Type in Seed Breeding.

The highest quality and most practically valuable seed of a variety is not that which from a large planting will produce a few superlative plants but that from which the largest proportion of the entire product will be of fine type. Uniformity of product is really the most important object of the seed breeding, and to secure it we must have, first, a clear conception of just what in every particular an ideal plant of the variety should be, and secondly, we must adhere rigidly to that ideal in our selection of breeders from year to year, and that we may do so it is essential that we have on record a full, minute and accurate description of the ideal plant we are working to produce, and select such plants, and such only, for breeders, rejecting those that differ from the ideal in any way, even if the difference is of itself an improvement.

Every living organism is the result of the balanced sum of hereditary influence inherited from its ancestors, that of one in a certain direction being modified by that of another in a slightly different or possibly directly opposite one. So that the more nearly alike all these influences are, the more certain and easily predicted is the result. If we introduce into the sum of heredity, through one or more ancestors, a more or less prepotent tendency in a certain direction, we disturb the balance and necessitate a new adjustment, and it is not certain that the resulting plant will be modified in the direction of the new influence in just the proportion that its numerical value bears to the whole, and in a majority of cases it will be found that some of the fruit will be greatly modified, others not at all, and still others will be changed in various directions, some possibly in one directly opposite to that of the new factor.

To illustrate, suppose we have a variety of corn which is generally ten rowed but occasionally showing an eight rowed ear and which would be more desirable if the ears were somewhat larger. We find a plant with a twelve rowed ear, larger, but in other respects like the type, and are tempted to use it as a breeder, hoping that the new twelve rowed tendency will overbalance that to produce eight rowed ears so that we would get rid of them entirely and increase the size of the ten rowed ears. It is possible that such might be the result, but I know by costly experience that there is greater probability that the outcome would be an occasional fourteen rowed ear, some twelve, some ten and more eight rowed ears than ever before; and while some of the ears might be larger, many would be undersized, and we should find all sorts of variation from the type, so that our product

would be far less uniform and desirable than before.

My success in seed breeding has always been in direct proportion to the clearness of my conception of the ideal I was striving to produce and the persistency with which I adhered to that ideal in my annual selection of breeding stock. Over twenty-five years ago I had a five-acre field of very fine corn in which I spent several hours in studying the variety and forming an idea of what a perfect plant of the sort should be, how tall, how many and how broad the leaves, color of the silk and tassel, length of husk, length and character of the ears, character of the grain, etc., etc. I then wrote a minute description of this ideal plant, with the limit of variation in each particular admissible in a breeding plant. I then went into the field and it took me many hours to find a hundred plants which did not vary beyond the limit in one or more particulars. I selected the best ten as breeders, and each succeeding year, with my description of the ideal plant in hand, made similar selections. The result of the work was that the sixth year I had on that same five-acre field a crop over 50% of which was within the limits of variation established for breeding stock six years before, when not one plant in a thousand came within the limit.

I am certain that my success in thus fixing the desirable qualities of the variety came from the persistent adherence to the clearly defined type. It may be argued that this course leaves no chance for improvement, and it does not as to type, nor should there be any. When we "improve" the type, we change it and in just so far as establishing a different variety, for by variety as used in relation to plants propagated by seed we mean all those plants which are of a certain type, and the very idea necessitates that type being a fixed one; but there is not a stock of any variety, either of vegetable or flower seed in existence in which there is not room for improvement in the proportion of the product which will come absolutely true to the type of the sort. An intimate acquaintance with most of the stocks of vegetable and flower seeds in common use convinces me that the greatest horticultural need of the age is clearly defined ideas of just what ideal plants of the different varieties propagated by seed should be, and a closer adherence by seed growers to such ideals in selecting seed stock. It seems to me that the defining and describing such ideal plants is work which can best be done by our national Department of Agriculture working in connection with our state experiment stations. Such descriptions, if well done, would be accepted by all seed growers

and the result would be the weeding out of a great many sub-varieties and a vast improvement in the quality and practical value of our common varieties because of their closer adherence to universally accepted types. WILL W. TRACY.

#### The Rust of the Chrysanthemum.

Some days ago while on a visit to a large floral establishment my eye fell upon the chrysanthemum rust again, and it seems wise to give this new pest in America a notice. This fungus disease is closely related to some others that have proved very troublesome among



CHRYSANTHEMUM RUST

greenhouse and ornamental plants and it may spread and be as serious to chrysanthemum growers as the carnation rust has been to the propagators of the carnation.

The accompanying engraving will give a fair idea of the appearance of the diseased leaves. The two specimens are somewhat reduced in size and therefore the rust pimples are smaller than usually seen. Frequently the spots are in clusters, there being several arched ones around a common center. The color is a chestnut brown, and therefore much darker than the closely related rust that has brought ruin to the hollyhocks in many localities within the past few years.

The spore spots appear upon both sides of the leaves but as a rule are much more abundant upon the under side, and therefore the foliage needs to be lifted before the observer gets a full view of the spore formation. The writer has not as yet been able to find the last stage of spore formation and therefore there is doubt as to the botanical name of the rust. On this account those who have the rust will confer a favor by sending to the undersigned a leaf or two from a rusted chrysanthemum. It will also help to give a knowledge of the range of the plant at the present time in the United States.

The rust is very likely an old weed and well known species and may have come in with imported stock or possibly infests wild plants in our own country and those growers of chrysanthemums who are suffering from it may have wild plants, even weeds, at their very doors that harbor and propagate the greenhouse pest. Those who have their chrysanthemums rusted should use all the precautions

needed with a disease that is contagious and may be carried in the stock.

It is a good rule to propagate only from stock apparently free from the rust and be watchful in buying not to introduce the disease into a house that was before free from it. It would be interesting botanically and of value commercially to learn of some varieties of chrysanthemums that are more or less susceptible than others. BYRON D. HALSTED.

New Brunswick, N. J.

#### Carnations.

Field culture is so simple an operation that it scarcely requires any consideration, so with a few general ideas given in this paper we will pass it by and for the balance of the summer season make a few plans for next winter. Do not imagine you can get good plants unless you keep them constantly cultivated. You may possibly get good plants by accident, but if you are in this business for a livelihood you had better not depend on luck. The ground in your carnation patch should never be allowed to get hard; whenever it rains enough to form a crust get in with your harrow and hoe and loosen it up. The loose ground acts as a mulch in dry weather and is far better than any other mulch that can be used, as it is not a harbor for insects and diseases.

Do not hoe deep around the plant; merely loosen up the soil, as it is better to encourage the formation of roots near the top of the soil than to cut them off with your hoe. With fibrous roots near the surface your plants will transplant into the houses better in the fall. Watering should not be done in the field unless you have enough of it and time enough to water thoroughly or by sub-irrigation. Top watering during a dry hot spell is far worse than the drought. If your soil is full of vegetable humus and is kept loosened on the top it will take a pretty severe drought to seriously affect your plants.

Topping should be attended to every week and if you want to keep in touch with your stock it is a good plan to attend to this yourself. With the spring rains and now the warm weather on hand the plants should be growing quite vigorously. As soon as there is any indication of a bud forming the plant or shoot wants to be cut down so low that the first axillary bud below the cut will produce a growing branch and not a flowering stem. This varies with the different sorts and can only be learned by observing for yourself. Some may think once a week unnecessary, but it is far better to go over your plants oftener and top only such as really need it than to top them so very close and not go over them again for three or more weeks. This latter method robs the plant of too much growth and is a serious hindrance to root formation. Watch the growth of the plants carefully and you can tell best how late to top them and learn what room they will require next winter and if they will require much or little staking. It is wise to keep your eyes open all the summer and you can then learn much toward your success of next winter.

If you want good carnations next winter do not let the weeds grow at all. As soon as they show through go over the patch and hoe them out. Those around the plants especially want to be pulled as soon as you can get hold of them, for they take the nourishment from the soil that belongs to the carnations. The whole summer culture consists of keeping the soil loose, the weeds down and top-

ping properly done; then you are reasonably sure of having good plants next fall.

ALBERT M. HERR.

#### A Shower Bouquet.

The accompanying engraving shows a cluster of Bride roses and lilies of the valley loosely arranged so that when held in the hand the flowers fall gracefully. This bouquet is about twenty-four inches long. The roses are not wired but wire is used to bind them together. All stems that can be spared are cut away so that the arrangement shall be as light as possible and the handle small, as without care it is apt to be heavy and clumsy. A florist some time ago receiving an order for a shower bouquet and making it up from the description given (never having seen one) was told on delivery that it had



A SHOWER BOUQUET.

developed into a regular "cloud-burst." After the flowers are arranged, narrow white ribbons are tied to some of the roses to which are attached, by a narrower ribbon or silver cord, roses without stems, small buds and sprays of lily of the valley with a little sprig of maiden-hair, sprays of which are also used to advantage in the body of the cluster.

ROBERT KIET.

BLOOMINGTON, ILLS.—On June 1 and 2 this city was the scene of a Flower Festival which in a measure rivaled the Mardi Gras of New Orleans and the carnival of the Veiled Prophets of St. Louis.

### Herbaceous Plant Notes.

Hyacinths and tulips, excepting a few late flowering sorts of the latter, are past some time ago, but the mixed border does not appear to have suffered on this account, perennials having taken their place. There is a wealth of gay colored blossoms to be found here now, backed up by the fresh young growth of the later blooming species. Only a few of the short lived spring flowering plants are entirely out of bloom, most of the early bloomers holding out until June. Aubretias, which flowered with the seillas and snowdrops are not past their best yet; the mossy phloxes are still perfect; arabis and the early candytuft are as attractive as ever and even the primulas hold their own and add materially to the grand late May show in the herbaceous border.

All the dornicums are well set with perfect bloom, though some of the first flowers on *D. Austriacum* and *D. Caucasium* show signs of decay, but the younger blossoms are now only at their best. *Tiarella cordifolia* looks better than it did a month ago; *Polemonium reptans*, with its half drooping flowers, is graceful and effective as ever; *Alyssum saxatile compactum* is a solid mass of bloom, as is the dwarfed *Erysimum pulchellum*; *Phlox amœna* and *P. divaricata* also add greatly to the general effect. It is true that early in May we miss the bright scarlet and crimson colors in the herbaceous border, but as we have all shades of pink, yellow, blue, purple and white, we can well afford to be without the more dazzling colors for a while. By the 20th of that month we usually have the gay oriental poppies, the brilliant *Pœonia tenuifolia* and the bright *Lychnis floccuculi fl. pl.*, soon to be followed by the glittering *Lychnis viscaria fl. pl.*, and ever after there is enough diversity in color and forms to satisfy the most fastidious.

Several of the taller ones are now well out. *I. Florentina*, almost white, with a faint tinge of lilac in the large flowers, is the foremost with us and the deep velvety purple *I. Germanica atropurpurea* is only two or three days later; of both we were able to cut quite a number of tall spikes on the 16th and again on the 20th without leaving the rows entirely destitute of flowers. *Asphodelus luteus* is now beginning to open out its tall racemes of fragrant yellow flowers on the strongest specimens, while on the smaller plants, they are just beginning to elongate. This is a most desirable plant, not only when in flower but also on account of the graceful bending form of the numerous awl shaped leaves, which are green all winter. *Asphodelus ramosus* grows taller, the racemes reaching a height of four to five feet; the flowers are quite large, white with a brownish line in each little segment; the leaves are broad and sword like and the plant is highly esteemed for planting as an isolated specimen on the lawn, but a generous clump of at least six to eight growths should be used in such a position.

*Anemone nemorosa* in a shady nook has been in bloom for a month or more and none of the pretty flowers show any signs of decay. *A. nemorosa fl. pl.*, is a pure white double form of great value; in keeping qualities it even surpasses the charming single form. *A. Apennina alba*, which came into bloom at about the same time also continues in fine shape and is a great favorite here. All these are dwarf plants, not over six inches high and should be planted in partial shade; they succeed in open spaces well enough but their flowers do not last near so long there. *A. sylves-*

*tris*, is considerably taller, twelve to eighteen inches, and not so early, but was well covered with bloom May 15, with many buds to come yet; it has large flowers on long wiry stems and is very useful for cutting. *Globularia vulgaris* with its round button-like flowers is called by many persons the blue double daisy, to which undoubtedly it bears a strong resemblance at a glance, in foliage and growth as well as in the shape and size of the flowers; it has been in flower for two weeks and will continue until July. *G. trichosantha* is about two weeks later, otherwise there is not much difference to be noticed.

The blue *Centaurea montana* and its white and so-called rose relations are all coming out rapidly; their large sized flowers are very acceptable for cutting, and being such remarkably free bloomers we may come again the next day. Recently divided plants are slow to start into growth; they do not flower quite so early but generally give us a succession of

bloom throughout summer and fall, and therefore it is a good plan to divide part of the stock every spring. *Lotus corniculatus*, that charming little creeper, with its red and yellow pea shaped flowers is useful wherever we may introduce it; we can cover bare spots with it in a short time, plant it among or in front of shrubs along the front of borders; we can use it for edging or in the rockery where it will form lace work over the rocks and bloom freely for months. The double variety is interesting and equally floriferous. Among dicentras, I think *D. formosa* deserves mention; the free growth, somewhat taller than *D. eximia*, and much brighter color of the flowers are its chief recommendations; the finely divided foliage in itself would be an ornament alone throughout the season, without the additional charm of the curiously shaped, drooping flowers. *Aquilegia flabellata* is I think the first of the family to bloom and certainly a good thing; the flowers are white throughout, large, of



CLUSTER OF BRIDESMAID ROSES AND MIGNONETTE.

remarkable texture, more substantial than any other of the many beautiful varieties, the plant dwarf and stout in growth with beautiful deep glaucous foliage. It is one of the comparatively newer introductions and still very scarce in this country, but the plant has a great future, apparently. *A. glandulosa* and *A. cœrulea* are a little later.

J. B. KELLER.

#### Notes and Comments.

Owing to the continuous unfavorable weather during May, the bedding out has been delayed. Zonal pelargoniums, or geraniums, as they are commonly called, are still among the leaders for this purpose. There was a time when General Grant was head and shoulders above all others in Philadelphia, as well as in many other cities as a bedder, but never counted on much as a market plant because it did not bloom sufficiently early for that purpose. Many people have to see a plant in bloom before they will buy it. Victor Millot was a good market variety, being dwarf, early and free-flowering, and a good bedder. The color was not so bright as that of Grant, having in it less yellow. *La Pilote* was the next favorite, being an early and free bloomer and bright scarlet in color with semi-double flowers. It has not seemed to make much headway so far as I have been able to observe in other cities. Its supremacy is now threatened by what I presume to be an American seedling, the *S. A. Nutt*, which is much darker in color than any of those above mentioned; and for that reason, by many it is more appreciated, being what its admirers declare "less glaring" than others that are suitable for outdoor bedding. I imagine that *S. A. Nutt* was raised by John Thorpe, when the old firm of Hallock, Son & Thorpe was in existence at Queens, N. Y. Mr. Thorpe had a friend by that name who was in his company a great deal at the convention of the *S. A. F.* held in Philadelphia in 1886. If my surmise is correct it goes to show how long it takes some good things to become well known. To

Mr. John Welsh Young belongs the credit for having brought this meritorious variety into Philadelphia, and as it is advertised by the ten thousand in some parts of the country it may be considered generally popular.

A public park is in course of construction at Chestnut Hill, with most of the best features of the popular Willow Grove Park, with the added advantage of cheaper car fare to reach there. The electric trolley cars run directly from Philadelphia right into the park, a distance of at least twelve miles, for a nickel. C. A. Knapp has the contract to furnish the bedding plants. A large United States flag will be one of the prominent features, though when on a visit there a few days ago, very few plants had been put out on account of the unfavorable weather; with better weather the planting will be put through with a rush.

I notice what Mr. Wallace has to say in last week's *FLORIST* in defense of the report of the meeting of the American Carnation Society held in New York in 1891. He is in error when he states that I wish to reflect on his abilities as a stenographer. Nothing was further from my thoughts. Only a matter of history—that is all. It is to be regretted that he misunderstood what was expected of him, though it cannot now be helped. As a member of the executive committee, I expected a verbatim report of the meeting, or the engagement of a stenographer would not have been for a moment considered, nor would the consequent expense have been warranted. I complained about it at the time, and have regretted the fact ever since.

Mr. Scott makes the statement that zinnias are out of place as cut flowers, though giving them all due praise for planting outdoors. Mr. H. H. Battles does not think they should be tabooed for that purpose, and he is an authority in such matters. He has produced some most telling effects with zinnias, notwithstanding the fact that they are "absolutely regular in form, stiff and formal." There is undoubtedly a place for the zinnia as a cut flower in the hands of an

artist, though possibly at the present time, under the existing state of international affairs, it may not be in the best of taste to use the prevailing shades in the colors of the zinnia, namely, orange and yellow, on festive occasions. Mr. Scott will, of course, use his own judgment in this matter, but my advice is to modify the sweeping statements made, because if a flowering plant has a place outdoors the flowers from that plant ought to find a place on some occasions indoors.

By the by, the name of Mr. Battles reminds me that he is so far convalescent as to be able to take a trip to Albany, N. Y., to render advice and superintend the floral features of the wedding to take place June 1, between one of Albany's belles, Miss Pruyn, and one of Philadelphia's prominent citizens, Mitchel Harrison, Esq. It is to be hoped that the trip will so far benefit Mr. Battles as to give him back his former health and strength.

Mr. Stephen Mortensen, Southampton, Pa., was married last week to Miss Annie Engard, Wyndmoor, Pa. Mr. Mortensen started in business for himself a little over two years ago. Prior to that time, for some years he was foreman for Edwin Lonsdale, Wyndmoor, Chestnut Hill. Congratulations are now in order and are herewith extended, and may their pathway through life be strewn with treble *N* roses. E. L.

#### *Clematis Paniculata*.

So rapidly has this beautiful and restful hardy climber been distributed, and so simple are its requirements, that little need be said in explanation of the illustration herewith presented excepting that it shows a portion of a space about 100 feet long which is planted as a hedge on the north side of the office at Waban Conservatories, Natick, Mass., and to call attention to its desirability for clothing unsightly or waste places with a mantle which is beautiful the whole year through. Its rich green foliage during summer, its masses of fragrant white blossoms which throughout fall and winter become clouds of feathery seed vessels, should make it pre-eminently a favorite everywhere.

#### Ornamental Bedding.

##### PART VII.

Count the carpet and design beds all over the land, and you will find the Maltese crosses and stars to be the leaders. A star is easily laid out, yet an old florist told me, speaking of a five-pointed star, that it was an easy matter to get the four points, but the fifth one always gave him trouble and made him nervous; and another old gardener had to ask a car-

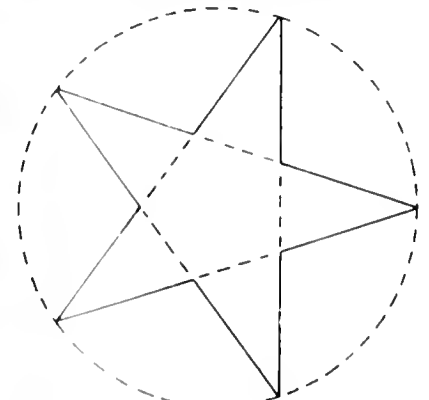
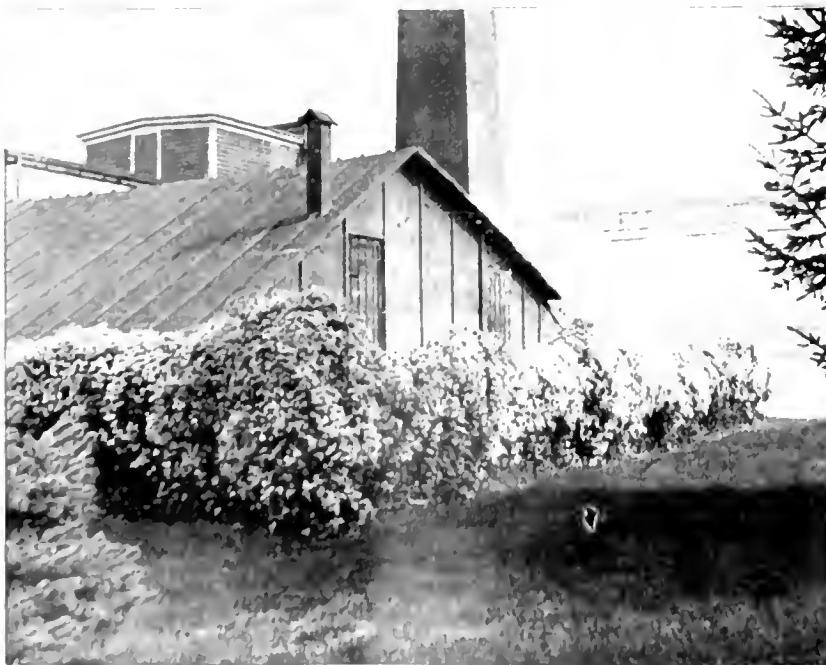


Fig. 26.



CLEMATIS PANICULATA



penter to make a pattern of strips once, when he was requested to make a star.

For a five-pointed star draw a circle of the desired diameter, divide in five equal parts, set pegs, tie twine between alternate points until you return to the first one as per Fig. 26. Or if you do not

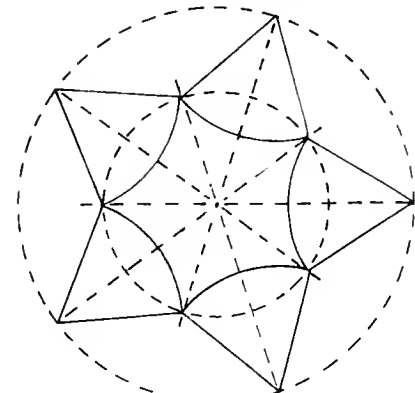


Fig. 27.

want the points so narrow, especially if it is a small bed, draw a smaller concentric circle, mark the inside points on this by stretching the twine from the outside points past the center, and where the twine crosses the smaller circle, put in your pegs. Fig. 27 shows such a star; it also shows a little variation in the planting. The rule given for the Maltese cross about distribution of colors holds good for stars; the points should not be planted in different colors.

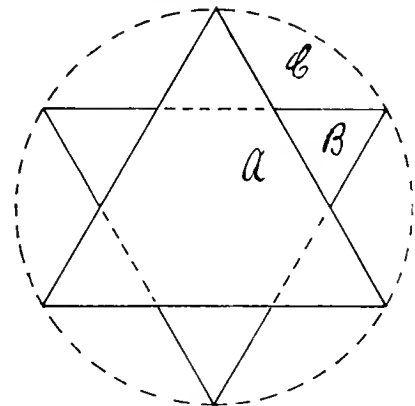


Fig. 28.

The six-pointed star is laid out in much the same way as the cross, being divided in six parts. Here we can vary the planting, considering the design as two triangles, one laid on top of the other. The

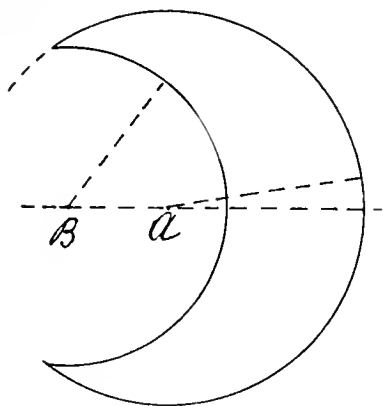


Fig. 29.

stars can be laid out in circular or other beds as part of the design. Fig. 28 put in a circular bed may be planted thus: Triangle *a*, *Coleus Golden Bedder*, bordered with *achyranthes*; points, *b*, *Coleus Black Hero*; *c*, *Santolina incana*, and a border of *Alternanthera paronychioides major* around the whole thing; make the bed altogether twelve feet in diameter, and you have quite an effective bed very easily laid out.

The crescent is another popular design from the astral regions, and easily laid out, as Fig. 29 shows; all you want is two centers and from them curves with suitable radius. If the radius from center *b* is five feet and you draw a five-pointed star as Fig. 27 with a radius of three feet six inches with *b* as center, you have a star and a crescent, which look nice when cut out in the lawn.

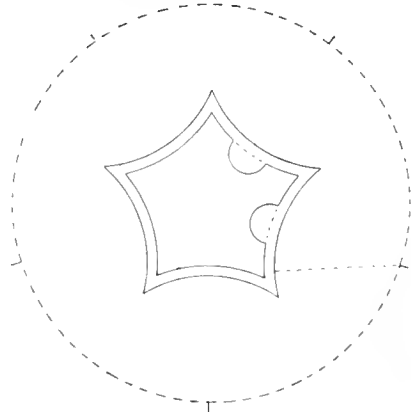


Fig. 30.

Fig. 30 is another easy bed to lay out, and even if only planted with scarlet geraniums, bordered with *Mme. Salleroi*, it is a welcome change from the circles and diamonds. It can also be planted with *coleus*, etc., and it can be improved a little by laying it out as suggested on the two sides; no difficulty in doing it and it looks neat. Suppose the circle in which the center lies is drawn within a radius of ten feet six inches and the sides of the bed are drawn from the five centers with a radius of six feet six inches, it can be planted for about the same price as a ten-foot circle, and it makes more show.

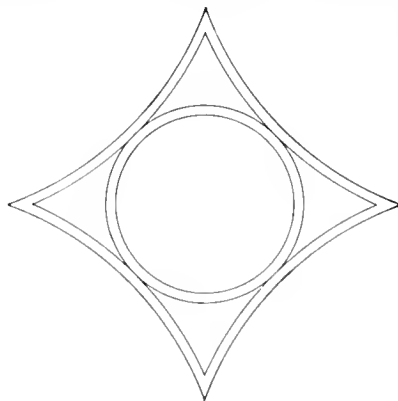


Fig. 31.

Fig. 31 is a design of similar construction. When laid out on a generous scale, say that the circular part is sixteen feet, planted with red French cannas, with a double border of John Good geraniums, the points filled with *Coleus Verschaffeltii*, bordered with *C. Golden Bedder*; spreading thirty-two feet from point to point, it makes a very bold and effective impression on a large lawn. H. HANSEN.

New York.

MEMORIAL DAY TRADE AMOUNTED TO LITTLE.—REDUCED RECEIPTS FOLLOW.—MILDEWED ROSES RESULTANT FROM DAMP WEATHER.—PÆONIES ARE POPULAR—TWO NEW FLORAL COMPANIES.—LOUIS SCHMUTZ, CLEARY & CO. AND THE WEATHER DIVIDE THE HONORS.—DEATH OF DENNIS M'CARTHY.—OFF FOR EUROPE.—INTERESTING JOTTINGS OF THE METROPOLIS.

The features of Memorial Day in this market were entire indifference on the part of the public, dullness in the retail trade, almost complete stagnation in wholesale centers, heavy receipts of stock in all lines of cut flowers and low prices as a result. Roses were decidedly poor in quality, but there were lots of them. Carnations were good and also plenty. Sweet peas showed the effects of the damp weather almost as much as did the outdoor stock. Lily of the valley, lilac and other garden products were in the worst kind of shape from the effects of rain and fog and if not sold at once quickly assumed an appearance that finished their usefulness. There was a small amount of shipping done, chiefly to New England points, where the local demand in response to local patriotism had forced local prices to such a limit that there was money in buying from New York at New York prices.

The present week sees a substantial reduction in receipts of cut flowers, roses especially, which, if the demand assumes normal proportions, will quickly bring values back to reasonable limits, but mildew has been at work and the quality has sustained a severe blow that seriously affects net returns. Lilacs and outdoor lilies of the valley are about at an end, but pæonies and snowballs follow them, and the avalanche of garden grown stock will continue until outdoor roses have passed. Pæonies seem to be popular and now bring good prices, but the bulk of the bloom is not yet ready for market, and final results on pæonies cannot yet be given. It may be safely stated, however, that their position as a florists' product is strengthened each year.

Dennis McCarthy, who for some time has been foreman for T. W. Stemmler, at his large establishment at Madison, N. J., died on Saturday, May 28, of heart disease. He was well known to the trade, having been previously employed by Jas. Weir & Sons, of Brooklyn, John Henderson Co., of Flushing, N. Y., and O. A. Slaughter, of Madison. He leaves a wife and several children.

Reed & Keller's wire design factory was burglarized on the night of May 26, but little of value was found by the thieves.

Thomas E. Weathered sails for Europe on the *Lucania* on June 4. T. W. E. Ebbinger, of the *Boskoop Horticultural Company*, sails for Holland on the *Apaardun* on the same day.

J. L. Schiller and Miss Mary E. Chadwick were married at Hagerstown, Md., June 1.

Ernst Asmus is up in Sullivan county upon a piscatorial expedition.

The establishment formerly conducted by Ed. Littlejohn, at Chatham, N. J., has passed into the hands of the *Chatham Rose Company*, under which title it will be run hereafter.

John Smith, who was for many years foreman for J. H. Taylor, of Bayside, has bought half of the *Laney* business at Woodhaven. The new firm is known as the *Woodhaven Floral Co.*

Flatbush bowlers keep at it every Thursday evening, notwithstanding the spring rush, and bowling scores are

ascending. Last Thursday Louis Schmutz "ketched the pot."

Cleary & Co. have been compelled to lease the opposite building, 57 Vesey street, to accommodate the tremendous stock of plants sent in for Tuesday and Friday auctions.

Manda Brothers have opened a retail store at 768 Lexington avenue.

#### Philadelphia.

GREATLY INCREASED BUSINESS MARKS THE CLOSE OF MAY IN THE CITY OF BROTHERLY LOVE.—STOCK WAS NOT OF THE BEST.—PRICES SHOW LITTLE ADVANCE.—GROWERS PLANTING ROSES.—PÆONY NIGHT IS NEAR.—OTHER FLORISTS' CLUB MATTERS.

May left us smiling, the thirtieth and thirty-first being beautiful days, which, after the month of almost continuous rains, was a most welcome change. When Memorial Day is fine it means greatly increased business for those of the craft who depend mainly on cemetery trade. This season all hands seemed to have fared better than usual. Westcott Brothers and Philip Alburger, at Laurel Hill, sold quantities of plants and cut flowers, and were rushed for a week previous getting out vases and baskets of plants to fill orders for the decoration of various cemetery lots. John P. Habermehl & Brother were also very busy; in fact all the suburban florists had all they could do. The stores also seemed to have an extra demand and did very well. The commission men could hardly handle their trade. It was not that flowers were so scarce, but that the grading of stock took so long. The continued wet weather had been very hard on roses, and first grade and extras were scarce, and it required time to get them assorted. There was considerable shipping to out of town florists, and that, together with the extra demand of the home trade, cleared up everything salable. There was considerable immortelle work, some of the stores making a specialty of large designs for the soldiers' graves. These are ordered by business firms who present them to the various Grand Army posts after they have been used for a few days to decorate their show windows. Messrs. Wolf, Habermehl & Brother and Hugh Graham had some elaborate pieces.

Considering the demand prices for cut flowers advanced very little. Roses sold at from \$4 to \$6 per hundred for first grade stock. There were very few extras. Beauties sold at from \$1 to \$3 per dozen for good flowers. Carnations of ordinary quality brought \$1.50 per hundred. The extras sold for \$2 and the culls for \$1 per hundred. Sweet peas sold for from 35 cents to 75 cents per hundred, and there were quantities for the demand. Longiflorums brought \$5 to \$8 per hundred. Pæonies are to be had by the wagon load at from \$2 to \$4 per hundred. Smilax is a bit scarce at from 15 cents to 20 cents per string. Lily of the valley sells well at from \$3 to \$4 per hundred, and cornflower commands from 10 cents to 25 cents per hundred.

The growers are now busy planting their rose bushes for next season's cutting. They have been delayed in getting the soil, the continuous rains keeping it too wet to handle. As far as we can see the varieties selected for next season's bread winners are: Beauty, Bride, Bridesmaid, Meteor, Kaiserin and Carnot, planted in quantity in the order named. The fancies will mostly be let alone, as the money, after all, is in the staple kinds.

The next meeting of the Florists' Club should be an interesting one as there is to be quite an exhibit of pæonies, and Joseph Heacock is to lead a discussion among the members as to what they know about this showy flower. The cases for the trophies and books belonging to the club are now finished and John Westcott, who had charge of their construction, says he intentionally made them larger than is now necessary so that the boys will hustle to win some more prizes to fill the empty spaces. That Spaulding cup would be at home here now; it seems to us that it must feel very lonely all by itself at Buffalo. K.

#### Chicago.

LARGER STOCKS THAN EVER IN THE HISTORY OF THE TRADE.—LOW PRICES WERE THE RULE.—STOCK FROM COLD STORAGE DEMORALIZED THE MARKET.—COLORED FLOWERS HAD THE CALL.—KENNICOTT'S THIRTY-FIVE CENT BURG-LAR.

Never in the history of the trade was there such an abundance of cut flowers as last week. Every grower seemed to have made a special effort to send to market every available bloom and pickling was resorted to far more than ever; roses that should have been sent in on Monday were held back until Wednesday or Thursday.

Carnations suffered more from the pickling process than did any other flower, as one-third of all the carnations in the market Memorial week had been held on the plants from one to two weeks too long before being cut. They were utterly useless except to depress the market and spoil the sale of better stock. Narcissus Poeticus which were cut in the first or second week of May and kept in cold storage for Memorial Day looked quite fresh after their long chill, but their keeping qualities were about exhausted. This process was tried with tulips, but without success. For several years growers of large numbers of pæonies have cut these blooms just as the buds commenced to show color, keeping them in cold storage until there was a demand for them. They have been held in fairly good condition for a month or more. A large lot of pæonies grown in the south was held in this way for Memorial Day and kept well but the great quantity of home grown bloom cut off the demand for pickled stock. Any one who watched the market closely during the past week was certainly convinced that to the pernicious practice of pickling, more than to any other cause, was due the great abundance of stock and accompanying ruinously low prices at a time when good prices should have prevailed.

Good roses were sold out closer than any other flowers, only a few Brides and extra long stemmed Beauties being left over. A large proportion of the roses in market were of inferior quality. Teas brought from \$1 to \$5 per 100, the better price being for extra fine stock. The market was swamped with carnations; as with roses, those of inferior quality largely predominating. They brought from 25 cents to \$2 per 100, with a few particularly fine blooms at \$4. The stock of first quality sold out fairly well, while the poor grades would not sell at any price.

The colored flowers had the call, very few white flowers being wanted. There were several fine lots of longiflorum in the market, but they found slow sale at lower prices than they have brought at any time this season, \$2 to \$4 per 100, many being jobbed at even less. About the same amount of this stock was in the

market last season and sold readily for \$1 per dozen.

The wholesalers report the amount of stock received at from 50% to 100% larger than ever before. The retailers generally found business for Memorial Day not up to what was expected, despite the fact that there was a larger stock of flowers handled during the week than ever before in the same length of time, but lower prices prevailed for the week than in any other week in the past year. Since Memorial Day the market has been steady, with prices somewhat higher. Good stock sells fairly well, very little being held over. Nearly all spring flowers are out of the market now except pæonies.

Kennicott Bros.' place was burglarized last Monday night, the robbers cutting a hole in the glass, reaching through and unbolting the door. The only thing missed was thirty-five cents from the cash drawer. J. T. A.

#### Boston.

UNPRECEDENTED MEMORIAL DAY TRADE RIVALED EASTER AND CHRISTMAS.—OUT-DOOR FLOWERS SCARCE.—RHODODENDRON SHOW POSTPONED ONE WEEK.

By unanimous consent Memorial Day, 1898, is pronounced to have been the best on record for the New England florists' trade. Many, indeed, there are who claim that as an all-round, profitable, and in every way satisfactory occasion it takes the palm over both Easter and Christmas. The prices quoted in advance by the Boston wholesalers looked out of proportion in comparison with the quotations in other cities but, they held good on Friday, Saturday and Sunday and everything was cleared out. Of outdoor bloom but little was available, the same cold, rainy weather that prevented snowballs and rhododendrons from opening having a disastrous effect on tulips, lilacs and other plants that were already in bloom. This condition was fortunate for the growers of the greenhouse product as they had a very heavy crop and the scarcity of outdoor bloom raised its value. There was a disposition noted, too, on the part of buyers to prefer the choicer flowers and there was a willingness to pay for them that was exceedingly gratifying. Those who had made big preparations for a demand for dried and artificial stock were doomed to disappointment and had much of the made up goods left on hand for next year. Altogether the florists, growers, wholesalers and retailers, including the street fakirs of Boston have every reason to be thankful for their experience of Memorial Day. New England is paved with little communities in which the same spirit prevails and the tremendous shipping trade to these places which the wholesalers were called upon to supply, was the very best kind of proof that all through this section the florists enjoyed the same good fortune as their Boston brothers.

Outdoor vegetation is considerably behind the average this year, as to time of blooming. Mollis azaleas are just popping open and the first of June finds wistarias, those that survived the late freezes, just at their best. Snowballs are still green and no bigger than walnuts; buds on rose bushes are scarcely apparent.

The rhododendron show of the Massachusetts Horticultural Society, which was scheduled for this week, has been postponed until June 7 and 8, and unless warmer weather should come quickly the pæony show which should take place on Saturday, the 11th, will also have to be set back one week.

## THE AMERICAN FLORIST

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wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

FRANCIS SUPLOT, the well known Philadel-  
phia violet grower, sails for France  
June 11.

K. GSOSEMET is the name used by a  
Greek street fakir to advertise his Cape  
jasmine flowers.

An English paper reports a case of fre-  
sia bulbs forming new bulbs after plant-  
ing without producing any foliage.

THE Royal Horticultural Society of  
England has awarded Messrs. Paul &  
Son, Cheshunt, a certificate for a double  
flowered form of the well known hardy  
perennial, *Alyssum saxatile*.

We are in receipt of the third annual  
park report of Indianapolis, Ind., from  
which it appears that considerable im-  
provement has been made in the park  
system of that city during the past year.  
J. Clyde Power is superintendent and  
engineer.

THE Royal Botanic Garden at Berlin is  
to be transferred to a new location. The  
present site, which has been devoted to  
the same purpose during the past two  
hundred years, has become too small, and  
it is surrounded by large houses injurious  
to vegetation.

THE fortieth annual report of the Mis-  
souri State Horticultural Society has  
come to hand. The book of some 400  
pages contains a large amount of useful  
information on horticulture in general  
and is well illustrated. The summer meet-  
ing of this society will be held at West  
Plains, Mo., June 7, 8 and 9. The secre-  
tary is L. A. Goodman, Westport, Mo.

THERE is now pending in congress a  
bill to authorize and encourage the hold-  
ing of a National Exposition of American  
Products and Manufactures, especially  
suited for export, at Philadelphia in 1899.  
The exposition is to be held under the  
auspices of the Philadelphia Commercial  
Museum, a public institution, and is a  
matter of deep interest to manufacturers,  
agriculturists, horticulturists and florists,  
as it will teach American producers the  
requirements of the markets of the world  
and at the same time do much to acquaint  
foreign buyers with the superiority of  
American products.

THE National Florists' Board of Trade  
calls attention to an act of the Ohio  
legislature which relates to insolvent  
debtors. The law provides, in substance,  
that every conveyance, transfer mort-  
gage or confession of judgment made by  
a debtor in contemplation of insolvency,  
or with intent to prefer a creditor, shall  
be void, and that every such conveyance,  
transfer, mortgage or judgment made  
while the debtor is insolvent, within  
ninety days next preceding a general  
assignment, shall be void, whatever the  
intent with which it is made. This applies

whether the debtor knew of his insolvency  
or not. The law will not go into effect  
until November 1.

### Cut Flower Price Lists Received.

Louisville Florists' Supply and Ex-  
change, Louisville; H. L. Sunderbruch  
Co., Cincinnati; Wm. F. Kastings, Buf-  
falo.

### Red Ants in Greenhouses.

ED. AM. FLORIST:—Please tell me what  
to do to rid my greenhouses of the little  
red ant. My houses are built on sandy  
soil and the ants bore in the pots and  
kill the plants. They bore in all the pots  
alike.

A. A. H.

### Novelties Registered.

The Conard & Jones Company, of West  
Grove, Pa., have registered at the secre-  
tary's office of the Society of American  
Florists, a new canna, "Admiral Dewey,"  
to be introduced in 1898, and a new rose  
of climbing habit, "Royal Cluster."

Wm. J. STEWART, Secretary.

### Catalogues Received.

American Road Machine Co., Kennett  
Square, Pa., ventilating apparatus; The  
Walker Fertilizer Co., Clifton Springs, N.  
Y., fertilizers; Knight, Clark & Co., West-  
ham Nursery, Langley, Eastbourne, Eng-  
land, plants; Fairmount Tree Protector  
Co., Philadelphia, Pa., insecticide; J. H. H.  
Boyd, Gage, Tenn., tree seeds; Greening  
Bros., Greening P. O., Mich., nursery  
stock; J. Lambert & Son., Trier, Germany,  
seeds and plants.

### Yearbook of the Department of Agriculture.

The yearbook of the Department of Ag-  
riculture is a mine of information on agri-  
culture and related sciences. In addition  
to the usual reports of the various divi-  
sions, many papers and special reports by  
experts are spread through its pages, and  
in most cases these are freely illustrated.  
The more important of these papers from  
a purely horticultural standpoint are as  
follows: "Lawns and Lawn Making," by  
F. Lamson-Scribner; "Hybrids and their  
Utilization in Plant Breeding," by Walter  
T. Swingle and Herbert J. Webber; "Some  
Interesting Soil Problems," by Milton  
Whitney; "Additional Notes on Seed Test-  
ing," by Gilbert L. Hicks and Sotheron  
Key; and "Danger of Importing Insect  
Pests," by L. C. Howard.

### Greenhouse Building.

Buffalo, N. Y.—C. D. Zimmerman, one  
greenhouse 18x30, hollow brick sides,  
cement floor, steam heat, angle iron  
frame.

East Greenwich, R. I.—M. B. I. God-  
dard, one conservatory.

Lewiston, Me.—E. Saunders, one green-  
house.

Holbrook, Mass.—A. Belcher, one com-  
mercial house, 20x100.

Newtonville, Mass.—Mr. Wheeler, one  
conservatory.

Cleveland, O.—J. M. Gasser, seven  
greenhouses, each 21x120, short-span-to-  
south.

Madison, N. J.—Gustave Besanceney,  
range of thoroughly modern, steam heated  
rosehouses by Henry W. Gibbons.

### Soil for Rose Growing.

There is a well-grounded belief among  
rose growers in general that they must  
make use of what they term maiden loam,

it being understood that loam that has  
never before been used for rose growing  
purposes is indispensable, especially to  
rose growing under glass for cut flowers.  
Are rose growers justified in this belief?

D. D. L.

I would say that in my judgment it is  
useless to attempt to grow roses and  
expect what might be considered success  
with anything but virgin soil. I like sod  
from grass land that has been mowed or  
pastured a year or two, plowed three or  
four inches deep, the soil to be what is  
generally called a strong loam. Compost  
this with one-third cow manure and with  
proper treatment after planting, the  
plants should flourish. Soil in which  
roses have been grown for a season be-  
comes loose and friable by the action of the  
roots and continual watering, and even  
though composted again would not, in  
my opinion, prove satisfactory, although  
I confess I have not tried it, thinking the  
risk too great. It would, no doubt, be all  
right again if spread on the ground and  
another crop of grass raised for three or  
four years, but then I suppose it would  
be restored to its original consistency by  
the action of the elements and the decayed  
vegetable matter from the grass.

Sea Bright, N. J. FRANK MCMAHON.

It seems to be customary in this sec-  
tion to select a piece of ground that has  
never been turned by the plow, and to  
use only the tough sod in making up the  
soil heap. I was of the same mind and  
for three years used maiden loam, the  
only perceptible advantage being a sav-  
ing in fertilizers. The root fiber when  
rotted in the bench gives nourishment to  
the plants, consequently I used less fer-  
tilizers in the soil heap. But last year's  
experience taught me that I could do  
without maiden loam and grow good  
roses. I filled a house with a compost of  
sand and soil from a plowed field in  
equal parts, and therein planted Brides  
from 2½-inch pots July 10. During the  
whole season this house produced more  
roses of a better quality than my other  
houses given the same treatment except  
that the benches were filled with maiden  
loam. I cannot see where rose growers  
are justified in their belief that maiden  
loam is indispensable, for three months  
after planting the soil loses its vitality to  
a certain extent, and the plants have  
then to rely on mulching for their sup-  
port. From my experience I claim that  
sod of three years growth, from a sandy  
loam, will produce as good results, both  
in plants and buds, as maiden loam under  
the same treatment.

R. M. S.  
Madison, N. J.

It is stated by scientific agricultural  
chemists, I believe, that there are bacte-  
ria at work in soil which exert an influ-  
ence over it, "in changing otherwise inert  
substances into matter suitable for the  
food of plants, converting the nitrogenous  
matter of organic origin into soluble  
nitrates." Such being the fact, if by  
actual experiment there has been found a  
difference in rose growing operations, in  
a comparative test, in favor of soil that  
has never been used inside a greenhouse  
before, it is just possible that by this  
unnatural and artificial treatment of the  
soil the bacteria exhaust themselves, and  
cannot increase and multiply through  
lack of congenial conditions. If this is the  
root of the trouble, what do scientific  
men advise as a remedy? In farming  
operations the bacteria peculiar to the  
successful growing of clover, under cer-

tain conditions become exhausted or are inoperative, and in that event, if I mistake not, our friends, the scientific operators at the experiment stations, recommend the use of soil that is known to possess the desired bacteria, and to apply it as a dressing to the soil on which it is expected to sow clover, and in that way impregnate it—if that is not the proper term, I hope I have conveyed the correct idea. Whether this is practical and can be applied to our soil that may be deficient in a friendly bacteria, can only be known by intelligent experiment by florists, or better still, scientific men who have made this branch of agricultural chemistry a study. One way could be tried—but whether with any hope of success our friends at the experiment stations can advise us—and that is to apply some new soil to that which has been taken out of the greenhouses wherein roses had been grown; in that way if friendly bacteria were lacking they would be re-introduced, and thus in a given time they might bring back our soil to the same condition in which it was before it had been used for roses. There may come a time when the renewal of soil into its pristine usefulness may be a serious item in the florists' business, especially in rose growing. A little light at this time would be opportune, and most of our friends at the experiment stations, who are more or less directly interested in these matters, would be only too glad to help us if the question as above was submitted to them. EDWIN LOSSDALE.

#### Chrysanthemum Notes.

In selecting the varieties that are intended for exhibition, we have to consult the scale of points under which they are to be judged and figure principally on varieties of good even color and fine form, with well clothed stems sufficiently strong to hold the flowers erect. A great many of the best exhibition varieties are of tall growth and must therefore be given plenty of head room in which to properly develop. Among such varieties are Golden Wedding, Modesto, Mayflower, Mrs. S. T. Murdock, Eugene Dailledouze, Evangeline, Maud Dean, Viviani Morel, and Chas. Davis, which, from plants set out next week, will attain a height of about five to six feet and should therefore have not less than seven feet of head room, while such favorites as Mrs. Jerome Jones, Major Bonnafion, Ivory, Mrs. H. Robinson, Geo. W. Childs, W. H. Lincoln, Mrs. Perrin, Western King and Defender will get along very well with five feet of head room.

Plant all red varieties by themselves and in a place where they can be shaded when in bloom if necessary, and also that they may be treated separately from the other colors, as most of the reds dislike much liquid manure. We plant all our exhibition varieties from eight to ten inches apart, according to their growth and in them to single stem. In this way we find it possible to get a greater number of high grade blooms from a bench than from plants with two stems, and we get better returns.

There were a number of new varieties of 1897 exhibited at the shows last year that had many promising points, and no doubt some of these will be more in evidence this coming season, among them being Mrs. F. J. Glesner, yellow; Evangele, white, of the form Mrs. C. H. Weiss, white grand Western King, white, and if we can only get it to grow Mrs. J. A. Pearson, white Defender, red and Mrs. Adams, yellow, style of Major

Bonnafion; J. H. Woodford, white; and Sunstone, a light bronze of fine form and growth.

Among the novelties of 1898 that came under our notice and with which we were very favorably impressed are Solar Queen, light yellow; Frank Hardy, white, of good form; Wm. H. Chadwick, incurved white, resembling Mrs. J. Jones; Autumn Glory, pink, after the style of Viviani Morel, but of an even shade of light pink; Pennsylvania, light yellow; Snow Queen, white, of good form; and Mrs. C. H. Peiree, a fine yellow, not extra large but of fine form and good substance. All of the above are making fine clean growth up to this date. C. W. JOHNSON.

#### Killing Aphides by Vaporizing Tobacco.

As many do not appreciate the difference between this and the old method of fumigating by smoke, a description of the method which we have followed here for some years may be of interest to some of your readers, as I have no doubt many of them have found out to their cost that to burn the stems not only destroys the color of the fully developed buds, but is very apt to injure those in a partially developed stage. This was our own case many years ago and compelled us to quit fumigation in the regular form in all blooming houses; then we tried spreading stems cut short over the surface of the soil, distributing very thinly; this destroyed the aphides and soon killed some of the plants also, which compelled us to seek other means to accomplish the same end. We tried stems on the walks of the houses; these had to be changed very frequently, which increased the expense materially, so finally we adopted our present method. We have found it effectual, and also a great saving in each year's expenses for tobacco stems.

The first thing required is a steam boiler (if one is not already on the place); the size must be governed by the size of the greenhouse plant. For say 50,000 feet of glass a boiler of eight or ten horse-power will do the work very well; place it in the boiler pit, the nearer central to the work required of it the better, and it should be so placed that the steam has considerable rise before entering the pipes in the greenhouse; we carry a 1½-inch main part of the way and 1-inch the balance; from this half-inch branches are taken out with tees at each greenhouse and a half-inch pipe run along under the front bench with half-inch valves and nipples placed at about fifty feet apart; no matter what length the house is, at the last valve an elbow can be used into which the valve can be screwed with a short nipple, as it is not necessary to run a return pipe to the boiler. All the piping should have a fall from the highest point near the boiler, so that when the steam is turned into the pipes all condensed water can be forced out at the different openings. Where the houses are already heated by steam all that is necessary is to make openings at about every fifty feet in one of your flow pipes, preferably this should not be over one inch, otherwise it may raise the temperature too high at times. In these openings place half-inch valves as described above.

Presuming that this arrangement is all ready, the next thing to consider is tobacco liquid. This we make by having one or more barrels prepared by placing them on end high enough to place a pail or watering pot under the faucet, make a cover frame by nailing strips about 1½-inch thick cross ways to form a kind of box. This should nearly fit the end of the barrel and be placed in the bottom;

then lay some stems across these to prevent the refuse falling in between the slats; next fill the barrel as full as possible with stems, pressing them as tight as possible, covering with a broad board and heavy weight to keep them down; then fill the barrel with cold rain water; let stand in a cool place for about forty-eight hours and it will be ready for use.

To apply this effectively, take a piece of steam hose about two feet long with a half-inch female coupling secured fast to one end to attach easily to the valve; at the other end a piece of ordinary ¼-inch gas pipe about eighteen inches long should be firmly secured; then take ordinary butter tubs, or any large pail will do, draw off about three pints of the liquid from the barrel, put in the tub, place the piece of gas pipe so that it almost touches the bottom of the tub, put a bundle of stems into the tub to prevent the liquid boiling over, turn on the steam with from ten to fifteen pounds pressure, open the valve in the greenhouse to allow the condensed water to escape as soon as live steam comes freely, attach the hose and turn the steam into the tub, or rather tubs, as there should be one for every valve in the house and they must all be opened at the same time or as soon as the operator can get from one to the other, commencing always at the one farthest from the boiler; let the steam remain on long enough to fill the house quite full of vapor, then turn off and allow to settle down quietly; it usually takes from ten to twelve minutes to fill an ordinary sized greenhouse. For a plant of any size it is better to have two sets of tubs and hose connections so that while one house is cooling off the other set can be put in use in the next house, and so on till the whole is completed.

It will be found when taking the tubs out of the houses that there is fully as much liquid in them as there was before turning the steam into them, and it looks as black as the original; this should be drained out from the stems as much as possible placed in tubs or pails and allowed to get quite cold, when it can be used for making the next lot of juice, instead of clear water, which will make the next lot much stronger than the first. Should it be found that the first lot is not strong enough to be effective, it would be better to draw it all off from the first barrel and have a second barrel prepared in the same way, putting the liquid into the latter; thus it will be much stronger after going through the second barrel. The heavier the pressure on these barrels the stronger the liquid will be, and the amount required must be governed by its strength; after a few times the matter can be easily adjusted by the operator. In conclusion, always choose a dull day and a cool one if possible, so that the ventilators can be kept closed tight for an hour after vaporizing, if possible. A little practice will make this a very simple, though like the ordinary fumigating, not a particularly pleasant operation, yet necessary, at least it has been found so by the writer. JOHN N. MAY.

#### Steam and Hot Water Heating.

PART VI.—NECESSITY OF RAPID CIRCULATION IN HOT WATER HEATING SYSTEMS.

When hot water boilers are set with sufficient capacity to properly carry the radiating surface with which they are connected, it will depend largely upon the construction of the pipe system whether or not there will be a waste of fuel. When a boiler has sufficient capacity to heat any certain number of square feet of radiation, it means that a

certain number of gallons of hot water must pass out from the boiler through the flow-pipe and return again to the boiler every few minutes, and unless there is proper provision in the pipe system to allow the water to flow freely to and from the boiler, so that as many heat units as possible may be extracted from the products of combustion, the boiler will not be able to do its full duty, and a waste of fuel is the result.

The more rapidly the water circulates from the pipe system through the boiler the more heat from the fire will it absorb. While water is a very poor conductor under certain conditions, it is a very good absorbant and conductor of heat under certain other conditions. Water cannot heat without being put in motion, therefore the more rapid the motion the quicker it will become hot. Heat must be properly applied in order to accomplish its purpose rapidly and economically. It will never do to apply the heat on the top of the water surface.

Unnecessary friction in pipes, heating coils and fittings should be avoided. Long sweep elbows, long return bends and long branch tees should be used in hot water heating in greenhouses, and the ends of wrought iron pipe should be carefully reamed out so as to give as little resistance to the flow of water as possible.

These are special points upon which the successful operation of a hot water heating plant depends. In steam heating plants there is a pressure of pounds to cause circulation through the system, but with water there is scarcely ounces of pressure to cause circulation, hence the necessity for removing every obstruction to the free flow of water through the pipes. A properly fitted hot water heating plant, as per the above suggestions, is worth a great deal more money, is more economical in fuel, and is cheaper in the end than is the usual slipshod methods of constructing such work. It is often surprising to some persons that there is so much difference in bids submitted for the construction of hot water heating plants, but this is not surprising to the experienced heating engineer, and the difference will be found in the plant after it has been constructed. In accepting low bids from inexperienced persons on such work we never get more than the worth of our money, and often get much less, so that for hot water heating plants the most experienced workers are none too good to employ.

#### TO INCREASE CIRCULATION.

There are two ways of increasing the effective or motive power, viz., by causing water to cool a greater number of degrees by transit through a greater length of pipe, or by exposing it to more surface in proportion to water contained in the pipes, and, second, by increasing the vertical height. This last is principally depended upon when additional power is required. If the circulation be doubled in velocity the water will pass through the same length in half the time and lose only one-half as much heat, because the rate of cooling is not proportioned to the distance through which water circulates, but to the time of transit. Increased velocity is indicative of increased power, and in hot water apparatus it is increased velocity which overcomes unusual obstructions. Care must be taken in arranging pipes so that water in its descent may not be obstructed by differences of level or angles where air might accumulate. For this effectually prevents circulation by dividing the streams. In running long heating coils it is, of course, necessary to give some fall

to the lines in the direction of the water, and for this purpose one inch in twenty feet will answer.

#### PRESSURE NO AID TO CIRCULATION.

A false impression, quite generally existing, is that an increase of pressure in pipes increases circulation of the water. However, such is not the case, for the reason that the back pressure always equals the pressure ahead. Since difference in the temperatures of the two columns is essential, the water should rise as much as possible directly it leaves the boiler, while it is hottest and lightest, and do most of its falling just before entering the boiler. When coldest and heaviest, and the motive power at best is small, every advantage should be taken of it. Flow pipes should be covered, as stated on other occasions in these articles, to retain the heat at the point where it is to be used. With the return pipe of a hot water heating apparatus covering is not important, as any loss of heat is compensated for by increased circulation. The advantage of conveying the water through ascending pipes from boilers is two-fold. It allows the most free escape for the air and steam, which prevents circulation, and also facilitates the circulation by increasing the actual and relative weight of the descending column.

#### DISTANCE HOT WATER CIRCULATES.

The distance through which water will circulate in a heating apparatus is very considerable. The limit has not been ascertained, as the higher it rises above the boiler the greater distance it will circulate. Generally it is best to shorten circulations, and an apparatus will be more efficient if run through two or more short circuits than if run through one long one. While impediments are overcome by considerable differences in temperature, the apparatus is most satisfactory when they do not differ widely. When a hot water boiler is placed considerably below the pipes and other surfaces the circulation is sure to be rapid, and the circulation should be as short as possible to have but little difference in temperature of flow and return pipes. But when the boiler is placed nearly on a level with the pipes it is often necessary to have greater differences in the temperatures, so as to secure a good circulation. Horizontal leading pipes require to be much larger in proportion to their branches than is necessary with vertical leading, or main flow, pipes, for the reason that the friction in an upright pipe is exceedingly small. JAMES J. LAWLER.

DANBURY, CONN.—The wife of Herbert Cocking, one of the oldest florists in Danbury, died on May 18.

#### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By a first-class gardener and florist. Private place preferred. State wages. H. H. HUNT, Evanston, Ill.

**SITUATION WANTED**—By man of 20 years experience in orchids, palms and all-round growing. Good references. Address A. B. care American Florist.

**SITUATION WANTED**—By first-class florist, good propagator and designer; carnations and mums. Or will take place on shares. Good references. H. care Am. Florist., 67 Bromfield St., Boston.

**SITUATION WANTED**—By a married man, middle age as special helper by the day or week in private or commercial place; 15 years' experience in outside work. References. WM. HELLMANN, Box 81, Oak Park, Ill.

**SITUATION WANTED**—As working foreman or otherwise by a good rose grower, also carnations, chrysanthemums, etc.; English, single, age 25, steady and sober. State wages. GEO. SPENCER, care C. L. Brunson, Grosse Ile, Mich.

**WANTED**—A good rose grower. Address MULFORD, Jefferson Park, Ill.

**WANTED**—A single young man for general greenhouse work. Steady place if satisfactory. 150 43d St., Chicago.

**WANTED**—A florist and gardener. Must be thoroughly competent. Address OXFORD RETREAT, Oxford, O.

**WANTED**—To rent 15,000 to 20,000 feet of glass in good repair, near Chicago. H. C. BLEWITT, Des Plaines, Ill.

**WANTED**—As foreman, an experienced rose grower for Villa Lorraine Roseries. Apply T. W. STEMMER, 36 East 14th St., New York.

**WANTED**—First-class florists' wire design worker. Steady work the year round. Apply with refs. HOLTON & HUNKEL CO., Box 103, Milwaukee, Wis.

**WANTED**—A competent florist and gardener, as partner; have two places. Very little money required to take half interest in either one or both places. For further information address B. B. care American Florist.

**WANTED AT ONCE**—All-round good florist for roses, carnations, mums and general stock. State wages, with references; board, good home, good treatment, steady place. REX. care American Florist.

**WANTED**—To rent or lease with privilege of purchase, greenhouses, 8,000 to 15,000 feet of glass. Must be in good repair and running order. Address with full particulars W. R. care American Florist.

**FOR SALE**—First-class retail stand, about 5,000 feet of glass; new. Has never paid less than \$100 per year net. Will require \$1,000 cash, balance time at 6 per cent. Reason for selling, falling health. Address ILLINOIS, care American Florist.

**FOR SALE**—Four greenhouses, nearly new, splendid retail stand, near business center in residence district, on road to cemetery, paved street. Terms easy. Must retire on account of poor health. A. CLAUS, 503 N. 4th St., Springfield, Ill.

#### FOR SALE AT A BARGAIN.

Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots 35 ft. front; water, gas and electric light on street; greenhouse, office and barn all newly built with all conveniences; heated by steam. Centrally located in city of 18,000 population in State of Indiana. Competition none to speak of. Leading establishment in the city. Sickness cause of selling. Address INDIANA, care American Florist.

## For Sale!

Store and established business on West Madison street, Chicago. Reason for selling owner cannot give it his personal attention. Address C. J. care American Florist.

#### CHICAGO LOTS FOR SALE.

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot; sewer and water. Suitable for greenhouse purposes.

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**WIRE DESIGNS: A Full Line. Write us for**  
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We have closed contracts with some of the best and most reliable producers for our stock of

Roman Hyacinths, Tulips, Dutch Hyacinths, Von Sion Narcissus, Paper White Narcissus, Valley, Harrisii, Longiflorum, Azaleas, and all leading Forcing Stock.

Give us a list of your wants and we will quote same. Don't forget that we are strictly in it on SUPPLIES OF ALL KINDS.

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Roses, Beauties	per doz.	1.00@3.00
" Brides		1.00@ 4.00
" Meteors, Kaiserlins		1.00@ 4.00
" Bridesmaids		1.00@ 4.00
" Gonters, Perles		1.00@ 3.00
Carnations, common		.40@ 1.00
" fancy		2.00@ 3.00
Marguerites		.50
Narcissus Poeticus		.50
Harrisii, Callias		2.00@ 5.00
Lily of the valley		.50@ 1.00
Sweet peas		.50@ 1.00
Glaadiol		6.00@ 8.00
Adiantum		.50@ 1.00
Smilax		10.00@12.00
Asparagus		40.00@75.00
Panicles		.50
Peonies	per dozen	.25@ .50

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 Strings 8 to 10 feet long,  
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**Carnations From Sand:**

	Per 100	Per 1000
White Hill	\$3.00	\$25.00
White	1.00	7.50
White and	1.00	7.50

Plants and cuttings sent by express at plant rates. 75 percent less than market rates.  
 We will guarantee our attention to our choice of plants at \$2.00 per 100 and \$15.00 per 1000

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# ROSE PLANTS

American Beauty Plants out of 3-inch pots, \$6 00 per 100.

Out of 2 1/2-inch pots.	Per 100	Per 1000
American Beauty	\$5.00	\$45.00
Meteor	2.50	22.50
Bride	2.50	22.50
Testout	2.50	22.50
Belle Siebrecht	2.50	22.50
Pres. Carnot	2.50	22.50
Bridesmaid	2.50	20.00
La France	2.50	20.00

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THE BEST MARKET IN NEW YORK.  
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## Wholesale Flower Markets

NEW YORK, June 1.

Roses, Beauties, Hybrids.....	2.00@16.00
" Bridesmaids, Testouts, Brides....	.50@ 4.00
" Morgans, Meteors.....	.50@ 2.00
Carnations.....	.75@ 1.25
Lily of the valley.....	1.00@ 3.00
Sweet peas, per 100 bunches.....	4.00@6.00
Harrisl.....	4.00@ 6.00
Smilax.....	10.00@12.00
Asparagus.....	40.00@50.00
Cattleyas.....	50.00
Peonies.....	3.00@ 4.00

BOSTON, June 1.

Roses Beauties, Brunners.....	3.00@10.00
" Morgans, Meteors.....	1.00@ 4.00
" Brides, Bridesmaids, Carnots....	2.00@ 6.00
Carnations.....	1.00@ 2.00
Lily of the valley.....	.25@ 2.00
Smilax, Stocks.....	1.00@ 2.00
Harrisl.....	4.00@ 6.00
Sweet peas.....	.40@ .50
Smilax.....	12.00@15.00

PHILADELPHIA, June 1.

Roses, Beauties..... per dozen	1.00@3.00
Brunners, Jacqs.....	4.00@ 6.00
Carnations.....	1.00@ 1.50
" extra.....	2.00
Lily of the valley.....	3.00@ 4.00
Harrisl.....	8.00@10.00
Sweet peas.....	.35@ .75
Peonies.....	2.00@ 4.00
Smilax.....	15.00@20.00
Longitorums.....	5.00@ 8.00

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WHOLESALE COMMISSION,

408 E. 34th Street,

Cut Flower Exchange. NEW YORK.

Buffalo.

MEMORIAL WEEK BROUGHT LITTLE BUT FUNERAL WORK TO HISON CITY FLORISTS. —NEWS NOTES AND JOTTINGS OF INTEREST.

The past week was very quiet with the exception of funeral work. On Tuesday a prominent wholesale liquor dealer was buried. The flowers were fine, both designs and bunches. One design in particular, an elk's head of violets and pansies, being most attractive. It was furnished by Wm. Scott. On Friday a leading insurance man and an ex-member of the National Guard was buried and among the many floral tokens was a Rock of Ages six feet high made by W. J. Palmer & Son.

Lily of the valley has been the prevailing flower this week but the quality to-day was inferior to that of the early part of the week.

Memorial Day brought forth more demand for cut flowers and plants than for designs. The supply of outdoor stock was not over abundant. Narcissi have virtually ceased blooming and peonies were not very good. Tulips are passed, except the pickled ones held in cellars for a week. Beauties were better this week than last and found ready sale. Bridesmaid and Bride were not so good, while Meteor is still fine.

George Fancourt is sending some fine adiantum plants to W. F. Kasting and they are selling fast.

Window decorations are very fine at present, each one trying to eclipse his neighbors. Palmer's Daybreak and Meteor are his principal show, while Anderson has a pretty window with Beauties and adiantum. Scott alternated between his famous Genesee, Jubilee and Pingree carnations and a pretty flower bed made in his window with green moss for a lawn. Rebstock is showing some fine hydrangeas and Adams had a pretty window of assorted flowers.

Carnations were sold in one store for 10 cents per dozen for one day, which hurt the sale with others when the price at wholesale was from \$1.50 to \$3 per hundred.

The board of park commissioners appointed Gen. John C. Graves superintendent of the parks to succeed Wm. Millan. Gen. Graves was a park commissioner for fifteen years.

The Chippewa Market presented a gay appearance last Saturday. Flowers and plants of all kinds and quality were to be had and at all prices and were eagerly sought after by buyers for Memorial Day.

C. D. Zimmerman, of the Pine Hill Nurseries, has secured the contract for the landscape gardening at the beautiful Italian villa of George K. Birge. W

# Finch WHOLESALE FLORIST.

19-21  
E. RANDOLPH ST.  
CHICAGO

## Wholesale Flower Markets

CINCINNATI, June 2.

Roses, Beauties, select	15.00@20.00
" " medium	10.00@12.50
" Brides, Bridesmaids	2.00@3.00
" Meteors	3.00@4.00
" Perles	2.00@3.00
Carnations	.50@1.00
" fancy	1.50
" Jacqs	.25
Marguerites, Sweet peas	3.00
Lily of the valley	8.00
Callas	2.00
Stocks	20.00@12.50
Smilax	1.00
Adiantum	50.00
Asparagus	50.00

ST. LOUIS, June 2.

Roses, Beauties	2.00@20.00
" Meteors	1.00@6.00
" Brides, Bridesmaids	1.00@6.00
" Perles	1.00@6.00
" Kaiserins	1.00@6.00
" Jacqs	1.00@1.50
Carnations	.50@2.00
Violets, California	.35
" double	.35
Lily of the valley	2.00@3.00
Harriell	6.00@10.00
Callas	5.00@6.00
Smilax	15.00@20.00

MILWAUKEE, June 2.

Roses, Beauties per dozen	1.50 @ 3.50
" Brides, Bridesmaids	4.00@6.00
" Perles	3.00@5.00
" Meteors	4.00@6.00
Carnations	1.50@3.00
Tulips	3.10@5.00
Harriell	7.00@8.00
Callas	8.00@10.00
Peonies	4.00@5.00
Marguerites white	.40@.60
" yellow	.60@.75
Smilax	15.00
Adiantum	.75@1.00

BUFFALO, June 2.

Roses, Beauties	5.00@35.00
" Brides, Bridesmaids	3.00@6.00
" Meteors	3.00@6.00
" Perles Niphotos	2.00@3.00
" Kaiserins	3.00@6.00
Carnations, white and colored	1.10@2.00
" Daybreak and fancies	2.10@3.00
Lily of the valley	3.00@4.00
Harriell	6.00@10.00
Sweet peas	.25@.50
Callas	1.10@2.00
Smilax	12.50@15.00
Adiantum	1.00@1.50
Asparagus	50.00@75.00

LOUISVILLE, June 2.

Roses, Beauties per dozen	1.00@2.00
" Brides, Bridesmaids	4.00@6.00
" Meteors, Kaiserins	4.10@6.10
" Perles	3.00@4.00
Carnations, fancy	2.00@3.00
" common	1.00@2.00
Lily of the Valley	2.50
Callas, per dozen	7.00@1.00
Sweet peas	.25@.50
Marguerites	.25
Marguerites dozen	.50
Smilax, per dozen	1.25@1.75
Adiantum	.75
Asparagus, per string	.90

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Milwaukee.

MEMORIAL DAY TRADE WAS A DISAPPOINTMENT.—SECOND CLASS CARNATIONS.—PARK MATTERS.

Memorial Day business was not all that florists desired. While many flowers and plants were used and a visit to the cemeteries would almost convince one that a big business had been done, each florist seemed to feel that trade should have been better. A very large quantity of second class carnations came in, but many were unsold. There is a good supply of excellent outdoor lily of the valley here now, but it is all grown by amateurs. White lilac sold out well, but purple lilac is not wanted.

There has been a large increase in the planting of shrubbery. Perennials and clematis, candidum and longiflorum, outside grown, promise well. A good rain is needed.

The park commission has several greenhouses on the Green Bay road leased in which they have prepared quite a stock of plants for bedding. John Dunlop is supplying plants for Juneau Park. The Forest Home Cemetery Association has donated several thousand geraniums to the park commission. C. B. W.

LEBANON, IND.—Henry L. Moore, to whom W. A. Bilger assigned, has sold the greenhouse to Gustave Minx for \$2,000. Mr. Minx is a young, practical florist. He came from Germany four years ago, and has had charge of the Longcliff greenhouses at the northern hospital for the insane at Logansport.

GREENHOUSE BUILDING

Full information regarding building and heating Greenhouses is given in "GREENHOUSE CONSTRUCTION," by L. R. TAFT, Professor of Horticulture, Michigan Agricultural College.

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(See review in American Florist, page 1173, April 30, 1898.)

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via Nickel Plate Road, June 3 to 6 inclusive. \$11.35 for the round trip on certificate plan. Tickets good returning until June 13 inclusive. Three through trains daily from Van Buren Street Passenger Station, Chicago. For further information address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (22)

CONGREGATIONAL HOME MISSIONARY SOCIETY

meeting will be held in Cleveland, O., June 7 to 9 inclusive, account of which Nickel Plate Road will sell tickets at \$11.35 for the round trip on certificate plan. Dates of sale June 3, 4, 5 and 6 inclusive. Tickets good returning until and including June 13. For further particulars address J. Y. Calahan, General Agent, 111 Adams St., Chicago. Telephone Main 3389. (23)

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 GEORGE C. SEAGER, Rochester, N. Y., Sec'y and Treas.

EXPORTS of scale-infested fruit are refused on the German frontier.

MR. P. S. PETERSON, of Chicago, the well known nurseryman, is now at a sanatorium for his health.

THE twenty-third annual convention of the American Association of Nurserymen will be held next week, June 8 and 9, at Omaha.

EAGLE GROVE, IOWA.—W. E. Garrat contemplates engaging in the nursery business here upon a large scale. He was formerly in business at Belmont.

AN open competitive examination will be held at various cities in New York on June 18 for candidates for the position of inspector of nurseries and orchards. Three officers are to be appointed at \$100 a month, their duty being the suppression of yellows, black knot, San Jose scale and other diseases and pests. Applicants are to be examined as to experience, practical and scientific knowledge.

**Heikes' Healthy Huntsville House.**

The Huntsville Wholesale Nurseries, of Huntsville, Alabama, of which W. F. Heikes is manager, with offices in the Unity Building in Chicago, has obtained by contract and purchase a large acreage at Benton Harbor, Mich., where they are now planting 50,000 surplus rose bushes. It is the intention of the firm to organize at the Michigan town as extensive an institution as that which has long been maintained in the south, the new nursery being devoted almost exclusively to the growing of roses and peach and European plum trees.

Mr. Heikes has been in the south for four weeks preparing to make the new establishment as large a producer of rose bushes as the southern one is of various trees, but he will return in season to reach Omaha for the nurserymen's annual convention, June 8 and 9, after which he will proceed to install in Chicago a store from which his company will distribute every requisite for a well equipped nursery, even to bicycles, carriages and wagons.

**Connecticut Pomological Society.**

The first field meeting of the Connecticut Pomological Society for the season of 1898 will be held at South Glastonbury on the farm of the society's president, Mr. J. H. Hale, in the height of the strawberry season, about the 20th of June. The big Maximus strawberry and many other new varieties fruiting in the test plot alongside of many standard varieties, under special methods of culture, will be the leading feature of interest, although the large fields of berries, chestnut orchards, Japanese plum orchards, and the great peach orchards, of which there are more than 200 acres of cultivated field on President Hale's home farm, will help to furnish the day's instruction.

Kinds of societies are invited to send delegates to the annual field meetings of the Connecticut Society and lovers of horticulture everywhere are invited to this June meeting each date of which, programme, etc., may be had of the secretary, H. C. M. — Milford Conn.

NEWARK, N. J.—Fernando Assloe has been sent to jail for twenty-five days for stealing bedding plants from East Side park.

GRAND RAPIDS, MICH.—Contrary to the wishes of the politicians Wencel L. Cukierski, who has had charge of the city greenhouses, has been named as park superintendent. Mr. Cukierski knows his business.

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A NEW departure in Tuberose growth. Flower bearing buds continue to form around the old flower stock indefinitely. Flowers greatly superior to those of all other single Tuberoses. Awarded Certificate of Merit by the S. A. F. at Providence last August, and the Shaw Gold Medal at St. Louis in November.

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**Notice!** The extensive collection of Foreign Grape Vines of our manager, Mr. John G. Gardner, has been transferred from Jobstown, N. J., to our Nurseries at Stoke-Pogis, Pa., and all orders can now be promptly filled by addressing the undersigned. Descriptive catalogue mailed on application. Those in the trade having wealthy clients, with hot or cold graperies, can procure for them, from this collection, the latest and best acquisitions, as well as the standard sorts. On and after JUNE 15th the plants will be ready to ship in pots, well-established, and in first-class condition.

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  - 20,000 Compacta, Globe and other dwarf Arbor Vitas, all sizes.
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  - 10,000 Norway Spruce, 3 to 8 feet.
  - 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
  - 5,000 Irish Junipers, 1 to 2½ feet.
  - 10,000 Pines, Austrian, Scotch, Exceles, White and dwarf varieties, all sizes.
  - 1,000 Eonymous Japonica, 18 to 36 inches.
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Cincinnati.

FIRST RECEPTION AND BANQUET OF THE FLORISTS' SOCIETY WAS A CULINARY AND SOCIAL SUCCESS.—BUSINESS FAIR.—RUDOLPH GOES TO EUROPE.

Business was very dull during the early part of last week but was revived by several large funerals, and orders for Memorial Day used up all available stock and by Saturday all commission houses were cleared out once more. Memorial Day is now past and both growers and dealers report a small decrease in demand.

Max Rudolph, of 71 Twelfth street, will leave next week for Germany to visit his parents.

One cannot but agree with Charles Dudley Warner when he said that the world can not get on without receptions, and the Cincinnati Florists' Society made no exception to this rule. On May 25 at 8 p. m. fifty-two florists with their wives and daughters gathered at the society's club rooms to enjoy the first banquet and reception. The menu of several courses was served at tete-a-tete tables with Pres. Witterstaetter and ex-Pres. Gillett presiding. Mr. Gillett extended a welcome to the guests and Pres. Witterstaetter, in a brief speech, presented the medals to exhibitors scoring the highest number of points during the season, as follows: A. Sunderbruch's Sons, first; City Greenhouses, G. Scheibely, gardener, second; George & Allen, third. In addition to the above prizes Geo. S. Bartlett, of the Cincinnati Deseccating Co., offered one ton of his bone flour divided into four prizes, Wm. Murphy, 400 rooted carnation cuttings of 1897 introduction, R. Witterstaetter, 250 Evelinas and Theodore Bock, 300 new chrysanthemums. E. G. Gillett, as toastmaster, called upon Wm. Murphy to toast the Cincinnati Florists' Society. Judge Theodore Bock was presented with a handsome gold headed umbrella and was completely surprised. He thanked the boys and advised them to keep on with their good work. Geo. Bartlett answered to the toast of America. The mandolin club played several patriotic selections. Frank Ball reported that we will have an outing on July 21, at Shady Cooney Island. Edward Hoffmeister spoke entertainingly of the history of the Queen City. Ben George related some of his cabbage stories. Henry Schwarz read a comic paper entitled, "Gardner Wanted," and Charles Jones retaliated because he thought the humor of the effort was too broad. It was a late hour before the festivities ceased.

H. SCHWARZ.

COBDEN, ILLS.—A. M. Lawyer, whose death occurred in San Francisco on May 12, years ago established here the most extensive orchards in Illinois. He was born in Pennsylvania in 1846 and was educated at the Polytechnic Institute at Troy, N. Y., and at the University of Albany. He was a recognized authority on apple culture.

LOS GATOS, CAL.—The Los Gatos Floral Society met May 25. There were discussions and excellent displays of roses and carnations.

August Rölker & Sons  
Cape Flowers,  
Cycas Leaves,  
Florist Baskets, **SUPPLIES.**

Send for trade list; also for prices on fall bulbs, azaleas, etc., imported to order. Address  
52 Day Street, NEW YORK.

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We Don't Quit Work

BECAUSE WE HAVE YOU ALL SUPPLIED WITH DECORATION DAY GOODS.....

We are now ready for June with its weddings, school graduations and college commencements. To the wide-awake, "get there" florist this is one of the most profitable months of the year.

You need fresh baskets, in fashionable designs and modern effects. These we are now opening in new materials and combinations. There is money in these goods at the prices we shall quote you.

Consignments of New Cape Flowers just received. Ribbon letters, Inscriptions, Cycas Leaves, Cycas Wreaths, Doves and Sheaves.

A Big Assortment. Send for Catalogue.

H. BAYERSDORFER & CO.,

50-52-54-56 North Fourth St., - PHILADELPHIA, PA.

Doves...

The largest and finest stock of white doves on earth.

Write for prices.

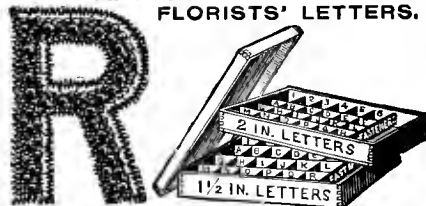
S. J. RUSSELL, 203 Summit Ave., JERSEY CITY, N. J.

See that my signature is stamped on every dove.



Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/4 or 2-Inch size, per 100, \$2.00. Script Letters, \$4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

SMALL GREEN GALAX

For use with... VIOLETS  
Stiff, wiry stems. Work up beautifully. Are all the rage.  
Box of 5000, \$5.00. Less quantity at \$1.25 per 1000. ....ADDRESS....

HARLAN P. KELSEY, 1150 Tremont Bldg., - BOSTON, MASS.

HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

BRILLIANT GREEN AND BRONZE GALAX LEAVES,

For Decorating and all Florists' Designs. CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

FIRST QUALITY HARDY CUT FERNS

NEW CROP arriving daily, \$1.50 per 1000. Discount to wholesale jobbers. Prince's Pine, 60 per lb. Headquarters for Galax Leaves, Laurel festooning, 4 to 8c per yd; Laurel and Prince's Pine Wreaths for Decoration Day, made to order. Fine green Moss in bble, \$1.00; 1p sacks, 75c. Our goods are always the best to be obtained for the money. Prompt attention to all orders. Send in your orders now for Ferns for Decoration Day and you will be sure to have them.

Crowl Fern Co. 27 Beacon Street, - BOSTON, MASS.

M. Rice & Co.

Exclusive Importers and Manufacturers of...

Florists' Supplies

25 N. 4th Street, - PHILADELPHIA, PA.

Have You Seen Our Agent?

A Complete Catalogue for Florists. Send for One.

ELLIS & POLLWORTH MILWAUKEE, WIS.

REED & KELLER....

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122 W. 25th St., NEW YORK CITY.

John Conley & Son, Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET, New York.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE Pres.; E. B. CLARK, 1st Vice Pres.; S. F. WILLARD, Wethersfield, Conn., Secy and Treas.

MR. LEM BOWEN, of D. M. Ferry & Co., is in California.

ONION seed prices in California are reported firmer.

FIRES in northern Wisconsin have destroyed some valuable lots of dry sphagnum moss.

J. M. THORNBURN & Co., New York, will remove to 32 Cortlandt street about the middle of June.

DALLAS CITY, ILL.—Heisler & Maxwell are putting up a large building for an agricultural and seed store.

FREIGHT rates from southern French ports have advanced 10%. This will affect the cost of French forcing bulbs.

CHICAGO.—Chas. P. Braslan's connection with Joseph Breck & Son, expired by limitation June 1. Mr. Braslan retains part of former office, while Messrs. Breck & Son have a temporary office in the same building. Mr. Braslan expects to visit California about June 15. F. Craig, of R. G. Craig & Co., Memphis, Tenn., is in the city.

THE American Seed Trade Association will hold its sixteenth annual meeting at Old Point Comfort, Va., beginning Tuesday, June 14. A good attendance is expected. Full particulars as to routes, etc., can be had on application to Secretary S. F. Willard, Wethersfield, Conn. A rate is made from New York City of \$13 for the round trip, with a thirty day limit. Western members not going via New York are recommended to use the Chesapeake & Ohio R. R.

PROF. W. W. TRACY, in an article on seed breeding which appears elsewhere in this issue, hints at a work which should profitably engage the attention of the various Experiment Stations and the Department of Agriculture, namely, defining and describing the essential characteristics of the ideal types of our useful plants. This would materially aid seed growers in establishing a basis for intelligent selection, and assist a growing industry of paramount importance to the country at large. These institutions have done much good work in the interest of agriculturists and horticulturists, while much of their effort appears to have been of questionable utility. But there are many ways in which they can be of service, and it is only men of large experience like Prof. Tracy who, by advice and suggestion, can properly limit the theoretical work, and interweave the really practical.

Burpee's New Warehouse.

On Wednesday, May 25, W. Atlee Burpee & Co. vacated the premises at 475 and 477 No. Fifth street, running through to 476 and 478 York avenue, which they had occupied as their Philadelphia warehouse and offices for the last sixteen years. This building which has some historic associations, having been used during the war as a hospital and Provost Marshal's office, is to be torn down in due date, and a new modern warehouse designed by Architect Charles R. Lee, to be erected. The contractor, James Johnson, has agreed to have the new building completed in October, meanwhile W.

Atlee Burpee & Co. have rented as temporary quarters a building at the corner of Fairmount avenue and Randolph street. The moving was so carefully planned that the filling of the orders (which of course are comparatively few at this season) was not delayed a day.

The new warehouse is to be seven stories high, of modern steel open mill construction, with frontage on both Fifth street and York avenue of light pressed brick and terra cotta. It will be the largest seed warehouse in Philadelphia and the proposed interior arrangements will make it the most complete for facilitating the prompt dispatch of orders.

As in the old warehouse the offices will occupy the entire frontage on the ground floor on the Fifth street side, while the receiving and shipping of goods will be handled on the York avenue side, where will be located the elevator shaft and the shipping clerk's office. A macadamized pavement will allow drays and wagons to unload directly into the ground floor or elevator. A sub-cellar will extend under the York avenue pavement so as to keep the heat of the steam plant away from the main cellar, which will be used as heretofore for the storage of potatoes and bulbs.

The second floor will be devoted to the flower seed and mail order departments. The third floor will contain the seed papering and steam printing rooms, besides extensive shelving for the storage of seeds as done up in packages. The fourth floor will be given up entirely to the freight and express and wholesale order departments. The fifth, sixth and seventh floors will be used for storage of seeds in bulk and, as indeed with the entire building, have the benefit of ample light and ventilation.

With the enlarged warehouse and modern conveniences Messrs Burpee & Co. will be able to handle their increasing trade next season with the utmost promptness and dispatch.

SYRACUSE, N. Y.—Walter Meneilly has brought suit against the city for \$1,250 damages inflicted upon his plants and nursery stock by the overflowing of his property, for which he holds the city responsible.

CHINESE PRIMROSE SEEDS...

Greatly improved and well-known to be of extra fine strains. Packets put up especially for Florists, of best single and double varieties. 100 seeds \$1.00. Plants ready in August. Cineraria seed of large flowering dwarf varieties in colored mixture, pkt., 2c; 6 pkts., \$1.00. Primula Obconica, pkt., 100 seeds, 35c. Primula floribunda, fine yellow, pkt., 25c.

JOHN F. RUPP, Shrewstown, Pa.

The Only Machine

on the market for automatically filling and sealing seed packets.

The Brown Bag-Filling Machine Co. FITCHBURG, MASS., U. S. A.

BAGS COTTON SEAMLESS, BURLAPS, ETC.

SECOND HAND BAGS BOUGHT AND SOLD. CINCINNATI BAG CO. Second and Walnut Sts., CINCINNATI, O.

Our New Directory will be promptly sent to you on receipt of order. Price on payment, only \$2.



RAFFIA BEST QUALITY, LONG MADAGASCAR

Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts.

In bale lots (about 225 lbs.) at \$8 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/4 lb. bars at 20c; 1/8 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut Streets, Philadelphia, Pa.

G. C. Watson, Seedsman.

Seed Stores and Flower Stores..

can profitably handle our ODORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed.....

We furnish Pure Bone Meal for florists' use. Guaranteed analysis... Ammonia..... 5 per cent. Bone Phos..... 55 per cent. Write for sample and prices.....

THE WALKER FERTILIZER CO. Clifton Springs, N. Y.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only. HENRY A. DREER, Philadelphia, Pa.

CLUGAS & BODDINGTON CO.

Importers and Exporters of

Seeds, Bulbs & Plants,

501 TO 503 W. 13TH ST., NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

"BEST OF ALL" TOMATO (FOR FORCING) "ENGLISH" MELONS (FOR FORCING) FLOWER SEEDS FOR FLORISTS Catalogues on application.

WEEBER & DON, Seed Merchants and Growers, 111 Chambers St., NEW YORK, N. Y.

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American Florist  
Company's

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WITH \_\_\_\_\_  
UPWARDS  
OF \_\_\_\_\_

**3,000**  
**NEW**  
**NAMES**

OF  
**Florists, Nurserymen *and* Seedsmen**

OF THE  
**UNITED STATES AND CANADA AR-  
RANGED BOTH BY STATES AND  
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**ALPHABETICALLY**

PRICE TWO DOLLARS.  
IN FLEXIBLE LEATHER BINDING, THREE DOLLARS.

**American Florist Company,**

324 DEARBORN STREET,  
CHICAGO, ILL., U. S. A.

Greenfield, Mass.

Memorial Day trade was fully up to last year's standard but the business of all local florists is injured during May and June by the quantities of wild flowers in the vicinity.

Carnations and violets have been planted in the fields since April 22 and are looking well.

E. B. Beals, of the Sunny Dell Greenhouses is planning a chrysanthemum show for November. He has distributed 600 plants among school children and offers four fine prizes for the best exhibits at the show which will be held in Grinnell Hall and will be quite a pretentious affair.

# PALM

Seed. FRESH ON HAND

	per 100	1000	3000
LATANIA BORBONICA	\$.50	\$ 3.00	\$ 7.50
ARECA LUTESCENS	1.00	7.50	20.00
ASPARAGUS PLUMOSUS			
NANUS	1.50	12.50	35.00
PHOENIX RUPICOLA	1.00	7.50	20.00
RECLINATA	1.00	7.50	20.00

**J. L. SCHILLER,**  
404 East 34th Street, NEW YORK CITY.

**Good Stock! Low Prices!**

**CANNAS** Strong plants of Alphonse Bouvier, Chas. Henderson, Egandale, Paul Marquant, Wm. Elliott Bisson, See, Stewart, Flamboyant. \$4.00 per 100; \$35.00 per 1000.

**COLEUS** Crimson Verschaffeltii, Golden Queen and Golden Bedder, \$2.00 per 100, \$15.00 per 1000.

**Geraniums** Double Gen. Grant and S. A. Nutt. 2 1/2-inch pots, \$3.00 per 100; \$25.00 per 1000; extra good, 4-inch pots, \$7.00 per 100; \$65.00 per 1000.

**Cobaea Scandens**, 4-inch pots, \$6.00 per 100.

**JOHN SCOTT,**  
KEAP STREET GREENHOUSES,  
BROOKLYN, N. Y.

## PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST



**GEO. WITBOLD**  
1708 N. HALSTED ST.  
CHICAGO

**ROBT. CRAIG & SON**

## Roses, Palms

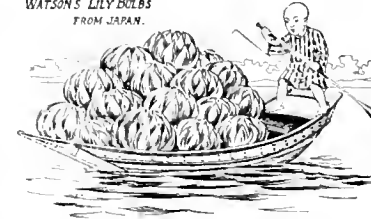
and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA

# Orchids..

LAFER & HERRETT, - Summit, N. J.

WATSON'S LILY BULBS FROM JAPAN.



JAPAN. EXCELLENT PURE STOCK. SOUND AND WELL RIPPED.

I have 3 sizes Japan Longiflorum—5 to 7, 7 to 9, and 9 to 10 inches, but as the large size is in short supply, I can book same only when some of the other two are taken, and I advise early orders, as there is a run on the Japan Stock this year. Delivery September 25th to October 15th, 1898. Prices guaranteed. I will be pleased to have a list of your wants in this item; also in **Harrisii, Romans, Paper Whites, Dutch Bulbs, Valley, etc.** Let me hear from you. All orders, large or small, receive the same careful attention. Address all communications to Juniper and Walnut Sts., Philadelphia, Pa.

**G. C. Watson.**

## Crotons... IN VARIETY

Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Lineata, Andreanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.

Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$6 per 100.

**Edwin Lonsdale,**  
Florist,  
Chestnut Hill, PHILA., PA.

Money Order Office,  
Station H, Phila.

## FINE PALMS

### ARECA LUTESCENS

3 plants, 5-in. pot, 18 to 20-in. high, per 100, \$40.00  
 3 plants, 10-in. pot, 48 to 50-in. high, each, 4.00  
 1 plant, 2 in. pot, 8 to 12-in. high, per 100, 5.00

### COCOS WEDDELIANA

1 plant, 4-in. pot, 15 to 18-in. high, each, .50  
 1 plant, 5-in. pot, 24-in. high, each, .75  
 1 plant, 5-in. pot, 30-in. high, each, 1.00

### KENTIA BELMOREANA

2 1/2-in., 3 leaves, 10 to 12-in. high, per 100, \$20.00  
 3 in., 4 to 5 leaves, 15 to 18-in. high, per 100, 25.00  
 5-in., 4 to 6 leaves, 20 to 24-in. high, each, 1.00

All measurements from top of pot.

**JOSEPH HEACOCK, WYNCOTE, PHILA., PA.**  
Mention American Florist when writing.

## The Finest Winter Flowering Plant of the Century

### Begonia Gloire de Lorraine

THIS fine variety keeps up a succession of bright rosy pink blossoms throughout the winter. It is invaluable for florists' work. H. B. May, who was the first to bring this striking novelty into popularity holds the finest stock in the world. Orders for export carefully packed.

**H. B. MAY,**  
Osyon's Lane Nurseries, Upper Edmonton, London.

## Rose Hill Nurseries

LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Aracacias, Pandanus.

**SIEBRECHT & SON, New Rochelle, N. Y.**  
New York Office, 409 Fifth Ave.

## ASPARAGUS SPRENGERII

From 2-inch pots, good stuff, per 100, \$5.00.....

**Cycas Revoluta**, dormant stems, size from 3 to 10 lb. @ 12c per lb.

**Clothilde Souper**, the great pot rose, our stock is A No. 1, 2-in. @ \$3.00; 2 1/2-in. @ \$4.00; 3-in. @ \$6.00; 3 1/2-in. @ \$9.00 per 100.

**Dahlias**, 2 1/2-in. pot plants, in named varieties, per 100, \$5.00.

**Pelargoniums Mme. Thibaut**, Mrs. Robt. Sandiford, Edward Perkins and Dorothy, strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.

## CANNAS

Plants from 2 1/2 and 3-inch pots @ \$4.00 per 100.

Alphonse Bouvier, Austria, Italia, Discolor, Exp. Crampel, J. D. Cabos, J. W. Elliott, Mrs. J. M. Samuels, Midway, Madam Crozy, Paul Marquant, P. J. Berekmans, Sophie Buckner, Stella Kanst, Star of '91, F. R. Pierson, Madagascar, Mrs. F. L. Ames, Mme. A. Bouvier, Octave Mirabeau.

Cuba Libre, Egandale, Florence Vaughan, Etandard, Pillar of Fire and Papa @ \$5.00 per 100.

Leonard Vaughan, @ per 100, \$12.00.  
 Mlle. Berat @ per 100, 12.00.  
 Yellow Crozy @ per 100, 20.00.

## FORCING ROSES

We have a fine stock of Brides, Bridesmaids, Perles, Meteors, Gontiers, American Beauties, Katerin Augusta Victoria, Pres. Carnot and Mrs. Robt. Garrett from 2 1/2 and 3 1/2-inch pots.

Send us your list to price.

## VAUGHAN'S SEED STORE

Greenhouses: CHICAGO:  
Western Springs, Ill. 84-86 Randolph St.

## Asparagus Sprengerii

\$5.00 per 100  
Cash with order. Seedlings

American Rose Co., Washington, D. C.

## CYCAS REVOLUTA

The true, long-leaved variety. Freshly imported, dormant stems. Run from 6 to 9 inches in length and weigh from 5 to 10 lbs. each. Note the price: 10c. per lb., \$8 per 100 lbs., \$75 per 1000 lbs., 50 lbs. at 100 rate; 500 lbs. at 1000 rate. Special prices on larger quantities.

**UNITED STATES EXOTIC NURSERIES**  
(Formerly Pletcher & Manda.) SHORT HILLS, N. J.  
Wholesale Catalogue Palms & Ferns on application.  
Mention American Florist.

Notes on New Carnations.

I spent a pleasant hour, a few days ago with Mr. Peter Fisher, of Norwood, Mass. Having seen his new carnation, Mrs. Lawson, in its prime, I wanted to see it again at the end of the season. Considerably stripped for stock, it is remarkable how it holds out, a perpetual bloomer with Malmaison proportions. Though not generally known, it is a cross between Daybreak and Van Leewen, which latter will be remembered as resembling Tidal Wave, and belonged to the European type of perpetual. Experts know Mrs. Lawson well; to others we would describe it as a salmon tinted, rose pink. Three thousand flowers were gathered from five hundred plants during the month of March.

Klondike is not so large but is better in form and color than Mayor Pingree. It is early, productive, with a well built flower, a good stem and tolerably free from rust. No yellow as yet, rank with Eldorado when well grown. Klondike is a cross of Edith Foster and Thos. Cartledge. All Mr. Fisher's yellows have had Cartledge as part parent. This same cross produced Morning Star, a new white now under a second year's test. This is not an exhibition variety, though commercially among the most profitable. Fragrance, form, productiveness and purity of color are all that could be desired, the flower lacking only size. Freedom improves every season. It is distinctly perpetual, early, large, and fully justifies its name. When well grown, there are few poor flowers. Mrs. Bradt is considered an acquisition among striped varieties, and here as elsewhere it has shown a red sport. This sport, I am told, is not reliably constant. Freedom has been crossed by Mrs. Bradt, giving two-thirds purple and one-half single flowers, none worth keeping. My seedlings of the reverse cross, to bloom this season, will be watched with interest. Nicholson's Camp Fire is productive and easy to manage, but not quite up to the standard among scarlets. Mr. Fisher's comparison between Bon Ton and Wellesley is decidedly in favor of the latter.

Among coming novelties much is expected of The Maine, an improved Mrs. Lawson. I can imagine the experts saying: "One at a time, please." Here is also an improved Wm. Scott, named Alice. In habit there is no difference, and the variation can only be seen when two flowers are placed together. The purple tint unnoticeable in Scott alone is seen at once on comparison. There is also a new Daybreak from Mrs. Lawson, and an improved Morning Star. This latter is not a seedling from Lawson. T. D. H.

Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.  
 RUDOLPH VAN TIL & CO.,  
 Hillegom, Holland.  
 American Representative  
**L. C. BOBBINK, Rutherford, N. J.**  
 ASK FOR CATALOGUE.  
 Mention American Florist.

**BULBS** For FLORISTS..  
 For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
 HILLEGOM, HOLLAND.



PLANT OF JAPAN CROWN L. LONGIFLORUM  
 GROWN FROM OUR STOCK.

**Lilium**   
**Longiflorum**

(JAPAN GROWN)

For immediate order we quote the following Low prices.....

	Per 100	Per 1000
6 to 8-inch.....	\$3.50	\$27.50
7 to 9 " .....	4.00	35.00
9 to 10 " .....	6.00	55.00

Special quotations on larger lots.\*\*\*

PRICE LIST ON

**"Fancy" Bulb Stock**

NOW READY

ASK FOR A COPY

**Vaughan's Seed Store,**

CHICAGO: 84-86 Randolph St.  
 NEW YORK: 14 Barclay Street.

**Kentia Palm Seeds**

Fresh Seeds of Kentia Belmoreana and Forsteriana by the case of 5000 Seeds received direct from Australia. Price \$17.50 net cash, F. O. B. New York. Prices for large quantities on application.....

**Australian Palm Seed Co.**

ROOM 52. \*\*\*

90 Nassau Street, NEW YORK.

**ASPARAGUS**

50,000 plants in 2 1/4-inch pots, \$5.00 per 100. Xpress; 24 for \$1.50 by mail. . . .  
 Specimens for 8-inch pots, \$6 and \$12.

**A. BLANC & CO. SPRENGER.**  
 PHILADELPHIA.

**Azaleas** THE FINEST STOCK IN THE WORLD  
**Palms** SANDER,  
**Bay Trees** BRUGES, BELGIUM.  
 AGENT:  
**Araucarias** **A. DIMMOCK,**  
 60 Vesey St., NEW YORK.

Do not forget to say "saw your ad. in the AMERICAN FLORIST" when corresponding with advertisers.

**Now Ready**

THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price \$2.00; in flexible leather binding, \$3.00.

**American Florist Company,**  
 324 Dearborn St., Chicago, Ill., U. S. A.

**Helpful Reminders.**

You may be requested to plant geraniums in a bed of tulips. Some customers have been given to understand that these plants are good year after year and they will ask you to save them for them next fall. Do not let such impressions go unnoticed. If you do your customer will possibly be disappointed next season and blame you. Explain to them: that no bulb ever blooms twice; that a new bulb is formed very close to the old one and, if properly developed, will be a duplicate, which for practical purposes may be considered the same bulb. Where the development is not perfect the bulb will be small and then people say that their bulbs grow smaller and the bloom is inferior. The leaves should not be cut off but the seed pods should be. Do not dig up until the foliage has dried off.

Label a large envelope "Orders for fall planting," and put it in your desk. Just now you can take orders for many things you cannot supply on demand. Put them in this envelope and in August you can look them up and have quite a little fall trade secured which, without the envelope, you might forget. Order now such seeds as you will use in July, such as primrose, cineraria and pansy.

Bamboos are sending up new shoots from the ground. Give them a shift and rich soil with good drainage as quickly as you can. Keep them growing. Get almost everything from under your benches. Tuberoses, begonias and gloxinias should be growing; small pots and light soil will do now; give them a shift later on.

A few fancy caladiums should be started now as they are valuable for summer decoration and are easily kept from one season to another. Pot plants of dahlias in bloom sell well and will rival the canna. You cannot do better than get a full set of named varieties for your trial ground.

Longiflorums planted outside last fall are looking well for bloom about June 20 and they are quite useful at this time. If you have not provided any make a memorandum and put it in your envelope for fall work. Gladioli on benches are in bud now; plant the balance of your bulbs outside. This is the time to get your local newspaper man to write up the beautiful features of many lawns and gardens, mentioning Mrs. Jones' beautiful almond, Mrs. Smith's perfect forsythia, Mrs. Brown's excellent Canary Bird tulips, etc.

Do not plant out all unsold pot plants. Everything that is good for Easter, such as hardy roses, particularly Crimson Rambler, hydrangeas and all shrubs, should be kept in pots.

When prunings are coming on poorly, with the buds covered with ants, bore two holes three feet deep, put in about two pounds of sheep manure, pour in at least a barrel of water and fill up the holes. Do not wet the surface of the ground. C. B. W.

ARIZONA, ILL. The nuptials of Grace Geradine Smith, daughter of Mr. and Mrs. Wickliffe L. Smith, and Miles Bronson, of Cleveland, Ohio, were solemnized on June 2 by Dr. E. W. Lounsbury, the divine who, nearly a quarter of a century ago, completed the hymeneal compact of the bride's parents. The bridal party left for the east in Mr. Bronson's private car immediately after the ceremony. Mr. and Mrs. Bronson will reside in New York city, where the groom is private secretary to President Callaway, of the New York Central Railway.

**YOUNG ROSES PLANTS**

**ALL STOCK SENT OUT IS FIRST-CLASS IN EVERY RESPECT.**

	From 2 1/2-inch Pots.	Per 100	Per 1000
AMERICAN BEAUTIES.....		\$5.00	\$40.00
BRIDES.....		3.00	25.00
BRIDESMAID.....		3.00	25.00
METEOR.....		3.00	25.00
KAISERIN.....		3.00	25.00
PERLE.....		3.00	25.00

**TERMS CASH WITH ORDER.**

**J. A. BUDLONG,** 37-39 Randolph Street, CHICAGO, ILL.

**40,000 FIRST QUALITY FORCING ROSES**

**READY FOR IMMEDIATE PLANTING.**

Fully equal to those sent out the last six years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating. Wootton, La France, American Beauty, President Carnot, 3-in. pots, \$8 per 100; 4-in. pots, \$12 per 100. Meteor, Kaiserin, Sunset, Bon Silene, Meteor, Perle, Gontier, Bridesmaid, Belle Siebrecht, Mme. Haste, Niphotos, Bride, 3-in. pots, \$7 per 100; 4-in. pots, \$10 per 100.

**J. L. DILLON, Bloomsburg, Pa.**

**ROSES OWN ROOTS & DORMANT FIELD GROWN**

**IN COLD STORAGE IN CHICAGO.**

No. 1, 2 to 4 feet, cut back to 2 feet  
 Yellow Rambler (Aglais)  
 Hybrid Perpetuals,  
 Mosses, Hardy Climbers  
 and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager.**

1308-1310 Unity Bldg., - CHICAGO, ILLS.

**Rose Plants...**

Fine Bride, Bridesmaid, Perle, Sunset and Meteor.  
 2 1/2-inch Rose pots.....\$3.00 per 100.  
 3-inch pots, standard..... 5.00 per 100.

**W. J. & M. S. Vesey,**  
 FORT WAYNE, IND.

**AMERICAN BEAUTY**  
 Fine young plants, healthy and strong. 2 1/2-inch pots, \$5.00 per 100, \$70.00 per 1000.  
**EDWIN LONSDALE,**  
 Wyndmoor, Chestnut Hill,  
 Cash with order. PHILADELPHIA, PA.  
 Money Order Office, Station H. Phila

**ROSES HANDY FOR WESTERN GROWERS**

Beauties, Brides, Maids, Meteors, Woottons and Perles, 2 1/2, 3 and 4-in. Strong, clean, healthy stock, cheap for cash, to clean up. If you want good stuff at prices to suit write us for prices at once. Address

**J. N. KIDD, Florist, St. Joseph, Mo.**

**YOUNG ROSES, STRONG STOCK.**

5000 MAIDS..... 3/4 in. Pots, \$30.00 per 1000.  
 1000 BRIDES..... 3/4 in. Pots, \$30.00 per 1000.  
 1000 METEORS.....  
 Also one record hand No. B. Hitzelberg Hot Water Boiler. Apply to

**THE FLORAL EXCHANGE,** 614 Chestnut Street, PHILA.

**Now Ready!**

**DIRECTORY** of Florists, Nurserymen & Seedsmen of the United States and Canada. Price Two Dollars. In Flexible Leather Binding. Three Dollars.

**AMERICAN FLORIST COMPANY,**  
 124 Dearborn St., CHICAGO, ILL.

**Mrs. Robt. Garrett**  
 NEW PINK FORCING ROSE  
 Winner of 6 certificates, medal and silver cup, \$3.50 per doz., \$25.00 per 100. A fine stock of young chrysanthemums and carnations. Send for trade list describing above in detail.  
**H. WEBER & SONS, Oakland, Md.**

**H. P. ROSES**

FROM 2 1-2 INCH POTS.  
 Strong, thrifty, well established plants. General price \$4.00 per 100. Extra fine lot of Crimson Ramblers.

**Jackson & Perkins Co.**  
 NEWARK, NEW YORK.

**ROSES..**

	2-in. per 100	3-in. per 100
Am. Beauties ..		\$5.00
Perle .....	\$2.75	4.50
Bridesmaid ...	2.75	4.50

**MAPLEWOOD CUT FLOWER and PLANT CO.**  
 PLEASANT HILL, MO.

**Memorial Rose**

(Rosa Wichuriana)  
 Strong field-grown plants,  
 \$50, \$75 and \$100 per 1000

**SAM'L C. MOON,**  
 MORRISVILLE, Bucks Co., PA.

**2-YEAR-OLD ROSES**

from 4-in. pots in variety, \$9.00 per 100.  
**CARNATIONS,** \$2.50 per 100 from 2 1/2-inch pots. Scott, Parlin, McGowan; also all young roses and general stock.  
**MOON VINES,** \$2.50 per 100

**THE NATIONAL PLANT CO., Dayton, O.**

**Do You Need Young Rose Stock**

for planting, out of 3-in. pots - A dollar more on the hundred is nothing if you get better stock. Send 50c or \$1.00 in stamps for samples of what you want to

**GEO. A. KUHL,**  
 Montlon 11th p. per .....PEKIN, ILL.



**Carried Over American Beauty Plants.**

Mr. Robert Simpson's replies to queries from correspondents are always intelligent and to the point. Experience which I have had along the lines heading this note may be of some little interest to your readers.

Last year I tried old American Beauty plants in various ways and in different houses with varying results. One house I left entirely undisturbed, and the after treatment it received, judging by the results, was not anywhere near being correct. The plants were given a partial rest for six or eight weeks—from early in July to the middle and latter end of August. Part of the house was pruned back hard one week later than the other, with no perceptible difference in favor of either when the time for cutting extra fine blooms arrived. This house is devoted entirely to solid beds.

The plants "broke" fairly well, though the leaves when developed were a trifle more yellow than I like to see in a rose at any stage of its existence. When this state of affairs presents itself, it is the natural impulse of most gardeners and florists to withhold water. This, I think now, is where we made a mistake, for I firmly believe that the plants did not receive sufficient water; and if I have the courage to try a similar experiment I will give them much more than those complained about received last summer and fall. I feel now that it would be a difficult matter to give old undisturbed plants too much water in a well-drained solid bed during the heated term of summer and early fall.

Another matter worthy of recording is that the warm end of the house has been the most profitable, which is proof, I think, that old plants require more heat during the fall and winter than do younger plants. The difference in the temperature during the night was not more than two degrees, yet the beneficial effects of those two additional degrees of heat were very apparent during the whole winter. Another experiment I tried was lifting the plants after pruning them to within two or three eyes from the base of the shoots, and heeling them in outside, where they remained until all the old soil was wheeled out and replaced by new. These plants gave fairly good results, and under certain conditions I would not hesitate to do the same again. When the object in view is to plant early for early cutting, my observations lead me to the belief that better results will be obtained than if the present years cuttings are used—unless the plants resulting therefrom be unusually strong. I will experiment a little again this year, but am not inclined to try soon again to leave the old plants in all summer undisturbed.

EDWIN LONSDALE.

**English Flower Pots.**

In perusing English gardening articles the American reader may be often puzzled to make out the size of the pot mentioned. The following list will be found useful, Small 60's, 3-inch; large 60's, 4-inch; 48's, 5 inch; 32's, 6-inch; 24's, 7-inch; 20's, 8-inch; 16's, 9-inch; 12's, 10-inch.

**Changes in English Methods of Exhibiting Roses.**

The National Rose Society in its present schedule provides for a few classes to be exhibited in vases with stems and foliage. The *Gardeners' Magazine* in commending this change advocates going a step further and abolishing the boxes for all exhibits of small numbers and showing

them "American fashion." Americans will wonder why any discussion is necessary on this matter and why any one who admires a beautiful vases of roses on long stems with fine foliage would ever advocate the sacrifice of all this beauty in an exhibition hall.

ANSONIA, CONN.—Morris A. Hill died at his home here on May 27, aged 63 years. For fifteen years he had been the leading florist of Ansonia and the superintendent of Pine Grove cemetery. Mr. Hill had been in failing health for a long time. He leaves a wife and five children.

# Rose Plants

**OUT OF 2 1-2 INCH POTS.**

	Per 100	Per 1000
AMERICAN BEAUTIES.....	\$5.00	\$45.00
METEORS.....	3.00	25.00
BRIDES.....	3.00	25.00
MAIDS.....	3.00	25.00
PERLES.....	3.00	25.00

**ROGERS PARK FLORAL CO.**

Wholesale Growers of... **51 Wabash Ave. CHICAGO**

**CUT FLOWERS ROSE PLANTS....**

## Roses! Roses!

In A-1 stock of all the leading varieties. Now ready at reasonable prices. . . . .

## Carnations...

Only a few left of Lily Dean, the best of all the fancy varieties.

## Chrysanthemums

All the new ones of this year's introductions and all the best of former years in splendid condition for immediate shipment.

## Cannas

All the really good distinct varieties in extra strong stock from 4-inch pots. Write for special prices on large orders to . . .

**JOHN N. MAY, = Summit, New Jersey.**

## Chrysanthemums

Mrs. S. T. Murdock, Mme. F. Bergman, Whildin, H. L. Sunderbruch, Eda Prass, Inter Ocean, V. Morel, Childs, John Shrimpton, Nivens, Golden Wedding, Mutual Friend, C. B. Whitnall, Bonnafon, Robinson, Philadelphia, Dailledonze, Ivory, Yellow Queen and others, 2 1/2 and 3-inch pots, \$2.50 per 100. . . . .

## Mrs. A. F. Wienold

**McDONALD & STEELE, Crawfordsville, Ind.**     20c each, \$1.50 per doz., \$10.00 per 100

## Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a Certificate of Merit at the Cleveland Chrysanthemum Show. It is in Yellow what Jerome Jones is amongst the White. The very best for late blooming. 2 1/2-in. pot plants strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

**E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.**

## Chrysanthemums, 2 1/2-in.

## Carnations, from soil.

## Geraniums, 3-in.

## Cannas, 4-in.

All fine stocky plants

Write for Quotations.

**The Cottage Gardens, QUEENS, L. I.**

## They Don't Miss Fire...

Who take the right course and dispose of surplus stock through the advertising pages of

**The American Florist**

IT HAS NO RIVAL.

**Pittsburg.**

MEMORIAL WEEK TRADE WAS A RECORD BREAKER.—GOOD PRICES PREVAILED.—CHRISTIAN BURKET'S FIELD DAISIES.—ERNEST FISCHER'S WELL-DOING.

The Memorial Day and week's business was a record breaker for this section. The absence of outdoor stock, owing to backwardness of the season, acted in favor of the cut flower branch, and many dealers sold out completely early in the day on Monday, while the plant men had on Friday and Saturday all they could attend to. Good prices were obtained. Paeonies that a week before sold at \$2 per hundred and were a drug on the market at that, brought \$2 to \$3 per dozen on Monday. There was an increase of from 50% to 75% in the total business over the best of several years past. Business since Memorial Day has been good, prices returning to regular rates.

Outdoor grown field daisies at this season are a rarity, but our market has been well supplied with them for two weeks. Gustave Ludwig informs me that they are grown by Christian Burket at Glendale, Pa. The original seed was brought by him in 1880 from Wiltenburg, Germany, and they are distinctly early varieties, as hardy as the ordinary kind and very prolific in blooms. Mr. Ludwig sold a large quantity of them within a week.

Ernest Fischer, of Castle Shannon, Pa., is making quite a reputation for being earliest in the market. He had cosmos and gladiolus several weeks ago, and this week had calliopsis, Lilium auratum over ten inches in diameter, and asters, the latter in pots; he expects to have dahlias and hollyhocks ready before others do. Mr. Fischer has ten greenhouses with about 12,000 feet of glass and this month will erect four more much larger, which will give him at least 14,000 feet more glass. His hotbed capacity is about 5,000 feet. With this he says he will have enough to keep him busy and enable him to furnish a better variety of stock, the quality of which will be, as now, strictly first-class.

REGIA.

**Rochester, N. Y.**

On Memorial Day the principal demand is for the cheaper grades of cut flowers; usually they are rather scarce here. It is seldom that many of the shrubs are fully in bloom and the large flowering perennials do not, in ordinary seasons, expand their useful blossoms until some days or weeks after May 30. This season, however, is an exception; shrubs of many kinds are ahead of their time, and in the perennials we have a far greater variety than we can ordinarily expect at the end of May, therefore the cut flower supply rises in all colors, blue, white and pink. Centaurea montana, the soft yellow Hemerocallis flava, brilliant oriental poppies, the dazzling Ichnis, aquilegias in great variety, plenty of white fibris, pyrethrums in all shades, and the showy large pomchels of Thalictrum aquilegifolium, besides the many species of principally white flowering shrubs. Never before was there such an apparently unlimited supply of showy cut flowers, but, of course, no very high prices were obtained. Last carnations and roses did not experience an advance in price as is usual at such seasons. Plant sales, too, were held up to the average, but prices are even below those of last year. The grower is grumbling and the retailer is dissatisfied still, taking into considera-

tion the quantities disposed of, neither of them has much reason for complaint except that they are compelled to handle or grow so many more plants to make up for the deficiency in prices.

The annual meeting of the botanical section of the Rochester Academy of Science was held May 24 and was notable for the display of Greenland plants collected by the Peary relief expedition and presented to the Academy by Prof. W. W. Kowlee, of Cornell University. There were other valuable exhibits. Papers were read, among them being one on "Germination," by Charles Wright Dodge, and one, "Notes on Yosemite Flora," by A. J. Perkins. J. B. K.

**Nashville, Tenn.**

COMMENCEMENT TRADE MAKES FLORISTS HAPPY.—DRY WEATHER DAMAGES STOCK.—PUTTING IN NEW ROSE PLANTS.—SHIPPING MAGNOLIAS.

The week has been occupied in filling school commencement orders, which have helped the florists wonderfully. Stock has not been good. The excessive hot, dry weather of the past two weeks has had its effect upon roses. Bride and Bridesmaid, especially, have felt the hot spell and are small, with scorched outside leaves. Florists are trying to shade their houses so as to prevent further damage. Perle and Meteor, especially the latter, seem to stand the heat well, and are in the market in very fair quality.

There are quantities of candidum lilies, field grown, to be seen everywhere. Sweet peas are abundant, although the dry spell has also affected them. Aster plants and other field grown stock are coming on nicely and will soon give an abundance of bloom.

Florists are busy putting in their new rose plants. Some of the growers dispose of their old bench roses to other florists and nurserymen, who cut them back and pot them. They make very fine roses for the market for those customers who prefer the two years old plants.

Northern visitors like to send home magnolia blossoms, which are now in full flower. They are very difficult to ship successfully and, being cut in the bud, do not give an adequate idea of the grandeur of the bloom as it is upon the tree. M. C. DORRIS.

KALAMAZOO, MICH.—Joseph Dunkley, a leading citizen died on May 27, aged 41 years. He was a florist by trade but a number of years ago instituted experiments in celery culture which have so developed the industry as to give Kalamazoo a national reputation for this vegetable. Mr. Dunkley leaves a wife and seven children.

**CANNAS**

Extra strong plants 4 inch pots Per 100  
Best French vars (Mme. Cozy, Alphonse Bonnier etc) \$6.00  
Common varieties 5.00  
Lowest wholesale rates for bedding plants, all first class stock in great variety. Prices on application. Take in exchange young Palms and Ferns, 2 1/2 in. pots  
**BAYWOOD FLORAL CO.**  
BRYANT ST., E. E., PITTSBURCH, PA.

**FLORA HILL CARNATION.** It sells because there is nothing in slight that all equal it. It speaks for itself wherever grown. It is the largest bloom. It puts all others in the shade. It is a great asset to present to equal it. We have four colored plants exclusively for propagating from; and we want them to bloom. Send at once and get the best stock ever offered. \$5.00 per 100, \$10.00 per 1000. Trade list in hand. If you have not received our card yet.

E. G. HILL & CO., Richmond, Ind.

Please mention the American Florist

**FINE PLANTS**

**VERBENAS**

IN BUD AND BLOOM.

Many Fine Varieties added to Our Collection.

Best Mammoth ..... per 100, \$3.00; per 1000, \$25.00  
General Collection ..... 2 1/2; 20.00

**ROSES.**

American Beauty, 3-inch pots ..... per 100, \$10.00  
Bridesmaid, Bride, Perle, Meteor, Bon Silene, Watteville, La France, Sunset, Mermet.  
Price from 2 1/2 inch pots, \$5.00 per 100; \$40.00 per 1000.  
Ever-blooming and Polyantha, in bud and bloom from 3 1/2, 4 and 5-inch p.t.s., \$10.00, \$15.00 and \$20.00 per 100  
Hybrid Perpetual, in bud, from 5 inch pots, strong \$25.00 per 100.

**CHRYSANTHEMUMS.**

50 fine varieties from 2 1/2-inch pots, \$3.00 and \$4.00 per 100. Send for list of varieties.

**MISCELLANEOUS PLANTS.**

Ready for immediate sales. 100.  
Anthemis Coronaria, from 2 1/2-inch pots, \$3.00  
Alternanthera, all leading varieties, 5.00  
Ageratum, blue and white, 3.00  
Carnations, from 4-inch pots, fine stock, 12.00  
Coleus, leading sorts, 2 1/2-inch pots, 3.00  
Ceraniums, double and single, 4-inch pots, 8.00  
" " " " 2 1/2 " " 4.00  
" Ivy, fine variety, 4 " " 8.00  
Heliotrope, from 3-inch pots, 5.00  
" " " " 2 1/2 " " 3.00  
Hydrangea Otakoa, 5 in., bushy, 25.10  
Fuchsias, double and single, 3 1/2-inch pots, 8.00  
" " " " 2 1/2 " " 4.00  
Moonflower, 2 1/2-inch pots, 10.00  
" " " " 4 " " 10.00  
Pelargoniums, 2 1/2-inch pots, 6.00  
Salvia Splendens and Bedman, 2 1/2-in. pots, 3.00  
Vinca Variegata and Eleazar, 4 inch pots, 10.00  
Violets, Marie Louise, 2 1/2-inch pots, \$25.00 per 100, \$5.00 per 100  
Pansies, in bud and bloom \$2.00 per 100; \$15.00 per 1000.

All the above is from stock in condition for immediate sales.

**WELL ESTABLISHED CARNATIONS FROM SOIL.**  
100, 1000.  
C. A. Dana ..... \$5.00  
Mrs. McBurney ..... 2.00  
Harrison's White ..... 2.50 \$20.00  
Wm. Scott ..... 2.00 17.50  
Lizzie McCowan ..... 2.00 15.10  
Portia ..... 2.00

New Trade List on application.

**WOOD BROS., Fishkill, N. Y.**

When writing mention American Florist.

**NEW WHITE PERPETUAL**

**BLOOMING CARNATION**

**Anna H. Shaw**

The Best "All Round" White Carnation for Cut Flowers. Recommended by Wonderful bloomer. Unusual vigor, rapid grower, forms strong blooming plants in a very short time. Perfectly healthy, handsome foliage, large beautifully formed flowers on long stems. Exquisitely fragrant. Never buds. Blooms longer and gives more flowers than any other variety ever offered. If you want a RELIABLE Carnation that can always be depended upon, give Anna H. Shaw a trial. Rooted cuttings \$1 per doz.; \$5 per 100. Strong plants \$1.75 per doz.; \$10 per 100. Send for Trade List and Catalogue of Seeds, Bulbs, Plants, Cacti, Etc.

**Mrs. Theodosia B. Shepherd,**

Ventura (by-the-Sea), Cal.

**Last Call FOR CARNATIONS**

All the novelties of 1898 at \$10.00 per 100. Flora Hill, Jubilee and Pingree, a fine trio, \$5.00 per 100. All the best standard sorts.

**GEO. HANCOCK & SON, GRAND HAVEN, MICH.**

**CARNATIONS**

E. DORNER & SONS CO. La Fayette, Ind.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

# SPECIAL PRICES

Per 100  
 GERANIUM "MARS" 2 1/2-in. in bloom. \$5.00  
 Geraniums, single scarlet, 4-inch in bloom. 5.00  
 Frank Hardy Chrysanthemums, 2 1/2-in. pots. per doz. \$1.00.  
 BRIDESMAID ROSES, extra clean, 2 1/2 inch pots. 2.00  
 BRIDE ROSES, 2 1/2-inch pots. 2.00  
 Bonnafont and Ivory Chrysanthemums, 2 1/2-inch pots. 2.00

## Henry Eichholz

Franklin Co., WAYNESBORO, PA.

# SURPLUS STOCK OF FINE PLANTS.

Per 100  
 Geraniums, mixed vars., 2 1/2 and 3 in. \$1.50 and \$2.00  
 Alternanthera, yellow. 1.50  
 Coleus. 2.00  
 Asters. 1.00  
 Fuchsias, assorted. 2.00  
 Sword Ferns, 2 1/2, 3 and 4-in. \$3.00, \$4.00 and \$5.00  
 Cyperus Alt., 3 and 4-in. 3.00  
 Catherine Mermet Roses, 2-10. 1.50  
 Roses, Monthly and Hybrid, mixed varieties. 1.00

WILLIAMS & SONS CO., Batavia, Ill.

# VEGETABLE PLANTS

Tomato, Cabbage, Lettuce, Celery and Sweet Potato, 15 cts. per 100; \$1.00 per 1000.  
 Pepper and Egg Plants, 25c per 100; \$2.00 per 1000.  
 Cauliflower Snowball, 35c per 100; \$2.50 per 1000.  
 All plants by mail, 10c per 100 extra. Price list for large quantities. Cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md.

# BENJ. CONNELL, Florist, WEST GROVE, PA.

10,000 Ampelopsis Valtchii, fine dormant pot plants, 1 and 2-year old; price 3 and 6c.  
 10,000 pot-grown Cannas, cream of bedding sorts.  
 20,000 Violas, 20,000 Carnations, Splenda Anthony Waterer and Blue Spruce; Strawberry-Raspberry and other new small fruits. All must be sold. Ask for prices. Address

BENJ. CONNELL, West Grove, Pa.

# 1800 VINCA MAJOR VARIEGATA LEFT.

Fine plants from 2 1/2-inch pots, \$2.50 per 100.

WILLIAMS & CRITTENDEN, WATERLOO, IOWA.

# CANNA BARGAINS. Dormant roots with two and more eyes. PURCHASER'S SELECTION of Alphonse Bouvier, Mme. Crozy, Explorateur Crampel, Florence Vaughan, J. D. Cabos and Chicago, \$15 per 1000; \$2.50 per 100. Burbank in 3-inch pots, \$3 per 100. MIXED CANNAS, \$10 per 1000; \$2 per 100.

AMERICAN BULB COMPANY, United States Exotic Nurseries, SHORT HILLS, N. J. TRADE LISTS ON APPLICATION.

# 2000 Smilax

First-class 3-inch stock, \$2.50 per 100; \$20 per 1000.

THE E. HIPPARD CO., YOUNGSTOWN, OHIO.

# HARDY PINKS

2 1/2-in. pots; Souv. de Sale, \$3.50 per 100; Her Majesty, Glen Valley, Laura Wilmer, Gertrude, \$3.00 per 100.

# VIOLETS...

2 1/2-in. pots; Admiral Avellon, Princess of Wales, \$3.50 per 100; Luxonne, California, Campbell, Swanley White, \$3.00 per 100.

THE CONARD & JONES CO., West Grove, Pa.

3000 SMILAX from flats at 40c per 100; \$3.00 per 1000. From 2-in. pots, \$1.50 per 100. FINE PERLE ROSE PLANTS from 3 1/2-inch pots, \$1.00 per 100.

ALONZO ULSH, Box 420, WABASH, IND.

# VERBENAS.

The choicest varieties and healthiest plants grown. Strong plants in bud and bloom.

\$2.50 per hundred; \$20.00 per thousand.

# GERANIUMS.

75 finest varieties in cultivation, grown in 3 1/2-in pots. Strong plants in bud and bloom. \$5.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

# HERR'S PANSIES

SEND FOR REASONS WHY THEY ARE THE BEST.

...SEED...

Ready now at \$1.50 per 1/4 oz.

...PLANTS...

September to January; 75c per 100; \$4 per 1000.

...SMILAX...

Ready now, 75c per 100; \$5 per 1000.

Sample plants for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

# Princess of Wales Violet...

The Best Money-Maker Among Violets. Strong 2 1/2-inch pot-grown plants. \$5.00 per 100.

J. A. PETERSON, = 105 E. 4th St., Cincinnati, O.

# GERANIUMS

Fine 4-in. stock in 10 Standard and new varieties at \$5, \$6, and \$7 per 100. 2-in. \$15.00 per 1000; \$2.00 per 100.

MME. BRUANT, strong, 2 1/2-in. \$3.00 per 100  
Mixed New and Standard vars., 2 1/2-in. 2.00 per 100  
S. A. NUTT, 2 1/2-in. 2.00 per 100

CASH PLEASE.

CARL HAGENBURGER, West Mentor, Ohio.

# Choice Stock!

HELIOTROPE 2 1/2-inch, fine plants, 2c.  
VERBENAS 2-inch, fine plants, 1 1/2c.

Separate colors. . . . Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

# FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,

Lock Box 1528, BOSTON, MASS.

Correspondence solicited.

# PANSIES THE JENNINGS STRAIN. THEY ARE GRAND.

Fine stocky plants in bud and bloom, \$10 and \$15 per 1000; \$1.50 and \$2 per 100 by express; small plants, 75c by mail. Pansy seed, \$1.00 per pkt. Aster seed, Simple's pink, \$1.00 per oz. Cash with order.

E. B. JENNINGS,

Lock Box 254, SOUTHPORT, CONN.  
Crazer of the Finest Pansies.

# PANSIES IN BUD AND BLOOM

Extra fine plants, \$2.00 per 100; \$15.00 per 1000. Cash with the order.

Edwin Lonsdale, Wyndmoor, Chestnut Hill, PHILADELPHIA, PA.  
Money Order P. O., Station II, Phila.

# Vinca Major Variegata

1000 3-INCH POTS

Three to five leads, 18 to 24-inches long, 75c per doz.; \$5.00 per 100.

NATHAN SMITH & SON, ADRIAN, MICH.

It is good business policy to mention the

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when you write to an advertiser.

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3,000 Alternanthera Aurea Nana. . . . \$1.00 per 100  
1,000 Fuchsias, 3-in. mixed. . . . . 2.50 per 100  
10,000 Asters, Perfection, white, pink, blue and scarlet, 60c per 100; \$4.00 per 1000. Also 2000 Snow-ball Asters. All extra strong plants.

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Alternanthera, Coleus, Geraniums, Pansies, Daisies, Verbenas, Fuchsias, Salvia, etc., etc. Write for prices. Florists when in Milwaukee are invited to look over our stock.

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ALTERNANTHERAS A. Nana, \$1.75. P. Major, \$2.00  
 BEGONIAS, COLEUS, 2 1/2-inch pots. . . . . 2.00  
 GERANIUMS, mixed colors. . . . . \$2.00 and 4.00  
 SALVIA, Clara Bedman, 2 1/2-inch pots. . . . . 2.00  
 COLEUS, 5 varieties, fine, 2 1/2-inch pots. . . . . 2.00  
 REGONIA VERNON, fine, 2 1/2-inch pots. . . . . 2.00  
 MOUNTAIN OF SNOW GERANIUM, 2 1/2 in. pots. 3.00  
 CASH PLEASE.

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French Cannas, Crozy, Queen Charlotte, per 100  
 Florence Vaughan, etc., fine plants. . . . . \$4.00  
 Geraniums, Double Grant 2 1/2 inch pots. . . . . 2.00  
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 COLEUS, 5 varieties, fine, 2 1/2-inch pots. . . . . 2.00  
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 Order at once and get good stock.

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From flats, by mail, 50c per 100, \$4.00 per 1000; From 2-inch pots, \$2.25 per 100, \$13.00 per 1000; Geraniums from 2-inch pots, \$2.25 per 100; \$20.00 per 1000. Cash with the order. Send for samples. Fred Boerner, CAPE MAY CITY, N. J.

St. Louis.

SUMMER LASSITUDE APPARENT IN THE MISSOURI METROPOLIS.—COMPLAINTS OF THE GROWERS OF BEDDING PLANTS.—SUMMER BLOOMS TO BE CULTIVATED.

Continued warm weather is having its effect on prices, for while they have been low they are going lower. During the greater part of the week stock was very abundant but of poor quality. Colored stock seems to have suffered most. Within the past few days several commencements, quite a few weddings and numerous shipping orders, cleared the market of good stock, especially roses. Prices with the commission men did not advance except with one or two who report one cent advance on select roses, which does not amount to anything. The best stock coming in of Kaiserin, Maid, Bride and Meteor is generally 4 cents, occasionally 5 cents; carnations, exceptionally good, are \$2 per 100. Outdoor stock is slow; some fine Jacqs are coming in and run from \$1 to \$1.50 per 100.

Trade holds up fairly well and quite a little shipping has been going on for the past two days, but the demand is looked upon as transitory and everyone seems to be expecting the early advent of the summer dullness.

Bedding trade has eased up very perceptibly, and has left numerous growers with large stocks on hand. There seems to be considerable hard feeling among the trade in regard to the prices at which bedding stock has been sold this season. Those who have sold out have done so at prices so low that there was little if any profit, and those still having stock on hand claim that the same amount of stock could have been disposed of at fully 50% higher prices, which would have given a profit all around.

Several of the growers who produce both cut flowers and spring stock, have decided to give up the latter and turn the time and space formerly devoted to bedding plants to the growing of roses, asters, gladioli and other stock for summer flowering. They expect to get the same or better returns for less work. It seems certain that there is a good opening for this stock, as it is almost impossible at times during the summer to obtain good blooms. R. F. T.

NORTHVILLE, MICH.—J. M. Dixon is gaining a reputation for ornamental beds and has laid out a number in surrounding towns, notably at Plymouth.

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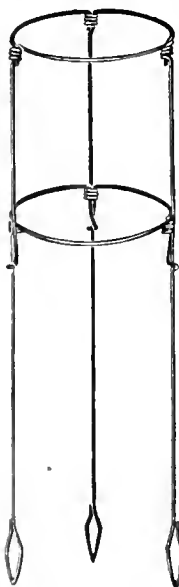
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C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.  
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DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Whisking you every sentence in the sale of them, I am  
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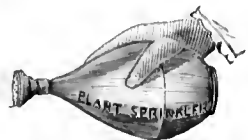
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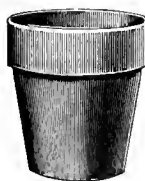
Dixon, Ill.

During the week preceding Memorial Day Dixon florists experienced trade which has been unexampled in recent years. Bedding plants sold well despite the cold weather and the Memorial Day demand cleared out everything in the line of cut flower stock. Roses sold at \$1.50 per dozen, with American Beauties at \$3. Carnations also brought good prices.

O. L. Baird is enjoying a rapidly increasing trade and is making a number of changes about his greenhouses. A. C. Murray, a brother of Samuel Murray, the well known Kansas City florist, is now in Mr. Baird's employ and is certainly a success as he is greatly increasing the production of the establishment, both in quantity and quality. W. R. P.



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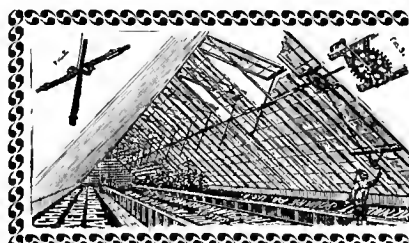
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Worcester, Mass.

Seven days of rain ended with Sunday and the flowers rotted on the plants. Even with heat on and ventilators wide open it was impossible to keep anything like a dry atmosphere in the houses but notwithstanding this bad weather, which, of course, had its influence on trade, we did the largest Memorial Day business on record.

The stock of flowers was larger and their quality was better than ever before but prices were about regular. Carnations retailed from 35 cents to \$1 per dozen; roses \$1 to \$3; stocks and antirrhinum 50 cents to \$2; lily of the valley 50 cents; lilies \$3; Narcissus Poeticus 50 cents; sweet peas 25 cents.

White syringa, field grown, worked in well on the coarser creations, but our great mainstay, Deutzia gracilis, was late on account of the dark week. Blooming plants in pots were not nearly as popular as the general increase in the plant trade led us to believe they would be. Hydrangeas and geraniums all sold fairly well, but there was plenty to spare, and good stock at that. Popular taste returned to the old days, and \$1 and \$2 bouquets were turned out by the thousand. Trade in general was on cheaper lines which, of course, made florists hustle all the harder.

A. H. L.

**Gurney**

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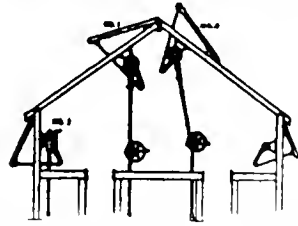
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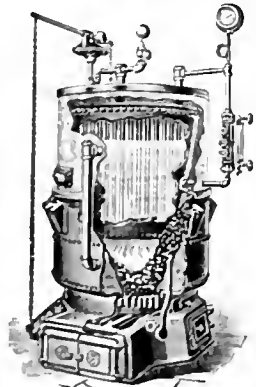


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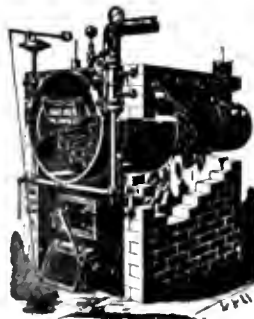
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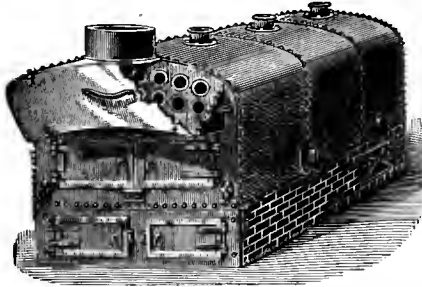
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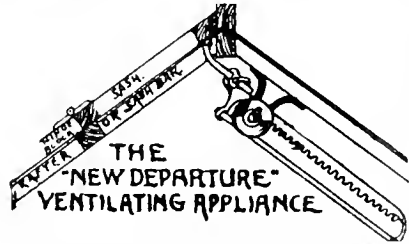
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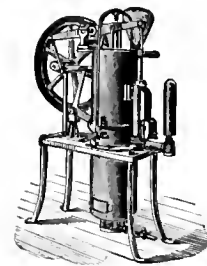
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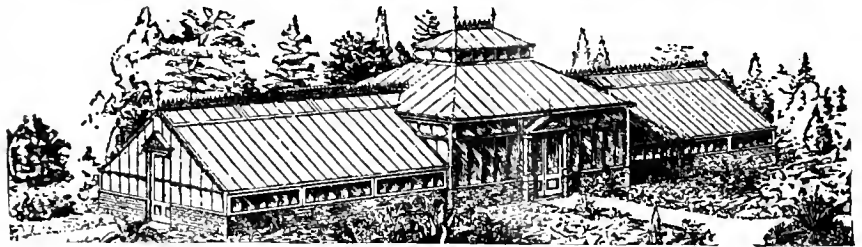
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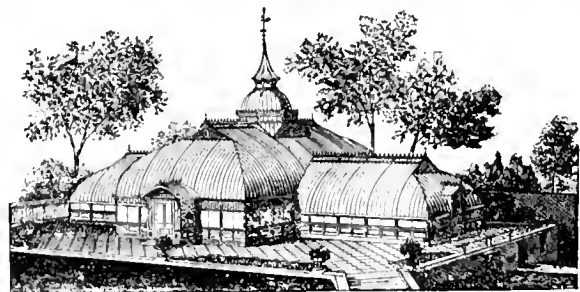
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A WEEKLY JOURNAL FOR THE TRADE



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No. 523.

## THE AMERICAN FLORIST

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### SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAGHUE, Omaha, Neb., vice-president; W. J. STEVART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August 16-19, 1898.

THE AMERICAN CARNATION SOCIETY.  
Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.  
Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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BROCKTON, MASS.—At the last meeting of the Brockton Florists' Club, which took place on the evening of May 31, a report was submitted by the committee having the matter in charge, recommending that an exhibition be arranged for next November. The plan was received with favor and a schedule will be forthcoming.

### The Florists' Bargain Counter.

AS PHILADELPHIA MERCHANTS VIEW IT.

Numerous requests for the editor's opinion upon the advisability of "special sales" and the best method of conducting such bargain transactions prompted the solicitation of the views of the leading Philadelphia dealers, whose ideas and experiences are herewith set forth by an interviewer:

A. B. Cartledge, of Penneck Brothers, said he had recently given the matter some consideration, had discussed it with some of the older heads in the business, and had come to the conclusion that for their particular class of trade the special sale or "bargain counter" would not be a good thing—his aim being to keep their trade on the highest possible plane. While admitting that a widely advertised cheap sale would bring a great many buyers for small lots, he thought that the sale would have a tendency to prejudice the customer who purchases \$100 worth at a time. Flowers being a luxury and not a necessity, it is not so easy to get the public to buy them, even should they be offered at a very low price. They only buy them when they need them, anyway. Mr. Cartledge thinks, however, that a store in a different locality from theirs might use the bargain sale to advantage on some occasions. For instance, if he were located on Columbia avenue he would consider it good business to offer cheap sales on certain days, especially if there were a special event in the neighborhood, such as a commencement, a university foot ball game, or some other social event where flowers are used by the rank and file in the neighborhood. But for the center of the city, and for such a trade as theirs, he could not see that there was anything in the idea. The department stores and the fakirs get about all the trade that could be gotten in that direction already, and it would not pay a store like theirs to bother with it.

Robert Kift, of Joseph Kift & Son, said they had never started a bargain counter, but believed it would pay, and had often thought of having a department where specialties could be sold cheap, that fact being well advertised in the newspapers. He said that he based this idea on the fact that people go where the crowd is, and that buying is so infectious that one can afford to sell very low on a leader for the sake of drawing the crowd.

"Do you think a high-toned store like yours would lose caste with well-to-do clients by introducing department store methods?"

"I do not, that is provided that no trash is sold. You must give the public

a good article to be a bargain. It's the bargain that brings the crowd, and if faith is not kept with them you will not get them again."

Mr. Kift is a firm believer that a great many more flowers could be sold if people could only see them. The problem is to bring the people, and the bargain counter ought to be a great help in pulling the crowd if properly managed.

The foregoing views being so radically different, I concluded to see what one of the prominent retailers who is not on Chestnut street thought of the matter. I therefore called on Robert Crawford, on South Eleventh street, knowing that in the past two or three years he has experimented in the matter of special sales widely advertised in the daily newspapers. I found Mr. Crawford not only able but willing to talk on the subject.

"From your experience, Mr. Crawford, of the past two or three years in regard to the bargain counter do you find the same has been injurious or beneficial to your trade?"

"Very injurious. There is nothing in the idea. It did me no good in the way of getting new customers, but has done me much injury with the customers I had before I tried the plan. I would buy up a lot of plants at a low price, just as Wanamaker does, and advertise them once or twice a week at a cut figure. I found that my regular customers very soon caught on and they would come to me on these days and buy; whereas if I had not advertised they would have come some other day and bought at the regular price. In the course of time I found that they all waited until I advertised something low. I made up my mind that if I kept it up I would have nothing else but a cut price business. My experience in cut flower sales has been very much the same. For instance, I had a contract with a grower to take all his cut of roses. In March I found trade a little slow and stock accumulating on my hands; I decided to mark my \$1 roses down to 50 cents for one day. I advertised the fact prominently in the daily newspapers and sold just two dozen at 50 cents. The next day I sold ten dozen at \$1. I have had numerous other experiences in the same line in regard to special sales, and am now thoroughly convinced that there is nothing in it. In fact, it hurts the regular business. If people want flowers they will pay for them."

"How is it that John Wanamaker can make his plant and flower department a success by following the bargain counter method?"

"I do not know. We cannot do it. Wanamaker has the crowd now on

lines, and has spent millions of dollars in reaching that point."

"Don't you think your special sale advertising has brought you some new customers in the past two years?"

"Mighty few. Once in a while we get one, but the trouble is they are almost certain to see some of my old customers and tell about paying 50 cents for a plant for which I had charged the old customer \$1. Then the row begins. My old customers cause me no end of trouble in explaining."

"Do you think that the department stores have succeeded in popularizing plants and flowers among the outside public?"

"I think not. In fact, I think they have killed the business in some respects. For instance, you take Pandanus Veitchii. I used to sell hundreds of it up to the time that Wanamaker went out to Wm. K. Harris' and bought his whole stock and made a special drive of them at half price. No one seems to want Pandanus Veitchii since that time. We sell one plant now where we sold a hundred a few years ago."

Mr. Crawford is not only down on the bargain counter, but he thinks that selling to the department stores hurts the grower in the long run. He argues that men like Mr. Harris and Mr. Craig, who sell to the department stores, will eventually find that these outlets will dry up, and then they will find that some one has killed the goose that laid the golden egg.

I next called on Hugh Graham, 104 South Thirteenth street. Mr. Graham has always catered to a first class trade, and was one of the first to get fancy prices for choice roses in Philadelphia. I have often heard the prominent rose growers in this vicinity state that they were satisfied that Mr. Graham had done more to raise the standard of quality and price than any other individual in this city. He set the pace many years ago, and the influence is still felt and acknowledged in the trade. Mr. Graham was at one time connected with the Wanamaker store, and is thoroughly in touch with the methods of that concern. On being asked whether he thought there was a chance to create business in the flower trade by inaugurating special sales on particular days he said:

"No, sir. There is nothing in it. If I had too much of anything I would rather throw it out or send it to the hospitals than offer it at a low price. Low prices hurt the flower business more than any other agency that I can imagine. If a lady or gentleman wants \$10 worth of choice roses they do not go to Wanamaker's to buy them; they go to some first class store. We would get very little of the cheap trade even if we were to advertise bargain days, and I think that after the novelty wears off even the department stores will do very little business in cut flowers and choice plants. Neither do I think that the fakirs hurt our trade to any degree, although it is, of course, annoying to see them push their little bunches under the noses of the customers who are coming into our store."

Mr. Graham is decidedly of the opinion that the point all florists should strive for is to keep the price of flowers on a paying basis, both for the retailer and the grower.

G. C. W.

(TO BE CONTINUED)

COLUMBUS, OHIO: C. B. Hine, foreman, of the Ohio State University gardens, has resigned to become superintendent of the farm at the new state hospital at Massillon.

#### Forcing Paeonies.

Herman Schiller, of Niles Center, Ill., has achieved noteworthy success in forcing herbaceous paeonies for Easter pot plants. His method is to lift the plants from the field about October 1, pot immediately, water thoroughly and plunge in a cold frame where they remain chilled just enough to make them dormant until time to bring them into heat. Best results are obtained by leaving the plants in a cool greenhouse or shed for a few days between the removal from the cold frame and the beginning of forcing. An even temperature of 58° to 60° is maintained until the blooms are out and attempts to retard growth by withdrawing heat after it has once been applied have been found to be disastrous. The pots being well filled with roots the plants are fed on liquid manure.

Mr. Schiller has tried several varieties but has found little success with other varieties than the officinalis. Of this the red is a week or ten days earlier than the pink and two weeks earlier than the white. It takes from six to eight weeks of heat to bring them into flower. After blooming in pots the plants cannot be forced the following season. Mr. Schiller forced several hundred plants the past season and they brought him an average of \$1.50 each, some fetching as high as \$3.50. The reds were all gone before Easter, but the pink and white were just right for that occasion. The pinks sold better than the others.

J. T. A.

#### Dracaena Godseffiana.

As a decorative plant this novelty will be found most distinct, useful and remarkable. It has little resemblance in general to ordinary dracaenas, but is nevertheless vigorous in constitution and of peculiarly graceful habit. The foliage is deep polished green, heavily spotted and splashed white, the stems slender and very wiry. Not easily affected by insects, it has the constitution of an aspidistra and grows very freely. A small plant sent by Sander & Co., to the Cleveland convention arrived in excellent condition.

A. DIMMOCK.

#### Carnations.

Carnations are evidently coming to the front at a great pace, if the additions to plants already in operation and the thousand and one new ones starting up are any indication of the popularity of this flower. It might be well to stop a minute and consider where all this will lead us to, also to look at the other side of the question. There are several very necessary adjuncts to successful carnation culture if success is to be measured by the profits derived from the business.

The first and most important of these is to be sure of your market. If you are going to wholesale your cut, it is imperative that you get near enough to your market so that you can look after the selling end as well as the growing end of the business; you also want to be close enough so that you can fill an order on short notice when they are wanted for some special occasion. If you are so situated, and grow absolutely first-class stock, you can regulate your price so that there will be some profit for you. If you are a retailer with a good grower in the greenhouses you have an advantage over all others as you then can soon learn to grow what will pay you the best and be reasonably sure of your carnations returning a fair profit.

To attempt to start a place any distance from your market and depend upon sending your cut in to a commission house and take pot luck with every other grower is very poor business, unless you have some other business connected with it and are satisfied with very small profit. The grower who starts up under the last named conditions should have his place so arranged that he need not have a night man and not any larger than he can manage himself with the assistance of some member of his family or possibly a boy at a few dollars a week. Two or three thousand feet of glass should be the limit of size in such a place if there is to be fair wages made out of it by the owner.

The man who puts up from five to ten thousand feet of glass any distance from his market and has to employ a night man and four or five others at decent wages will come out at the little end of



DRACAENA GODSEFFIANA.



VIEW IN THE NEW STORE OF SMITH &amp; FETERS, CLEVELAND, O.

the horn ninety times out of the hundred, no matter what any one says to the contrary. Where you pay for your help and have a reasonably well built place it is going to cost you \$1.50 per 100 and possibly more for every hundred carnations you cut from the beginning to the end of the season (that is if you are growing good varieties and first-class stock), and you will find that many times during the season your returns will not reach \$1.50 per 100. If you can get good, round figures for your cut when there is demand for it, you will be all right, but ninety out of the hundred never get over three dollars, except possibly at Christmas.

If you do not grow first-class carnations, the original cost will not be so much, but the returns will be correspondingly small, and the grower who attempts to make a living out of second class stock next winter is going to have mighty poor fare and he will more than likely be in debt by June 1, 1899, with no money to pay his indebtedness. This may seem a pessimistic view of the situation, but careful observation among carnation

growers will substantiate every word of it. The retail grower can by good management make a market for his flowers, but the wholesale grower is at the mercy of the market unless he has exceptionally fine stock and is thus in a position to make his own prices. Carnation growing has made some remarkable strides in the past few years and good stock is becoming more plentiful every year, so that unless you are sure of your market and have a little capital to help you over a bad season it is not wise for a beginner to invest his money in a carnation plant.

ALBERT M. HERR.

#### Soil for Rose Growing.

The inquiry from your correspondent on this subject touches upon this matter from several standpoints which are of vital importance to all of us who have to depend upon the produce of our greenhouses for a living. The inquirer says there is a wellgrounded belief among rose growers in general that they must have what is termed maiden loam for their

rose growing operations, it being understood that loam which has never before been used for rose growing purposes is indispensable, especially in rose growing under glass for cut flowers, and concludes by asking whether rose growers are justified in that belief.

Now, although there is no suggestion made that I am personally responsible for a considerable share of the general belief on this point, yet from several other sources I have been told that my writings upon this particular point in the past are somewhat misleading, and possibly this same correspondent may entertain somewhat the same views. To answer this intelligently requires a somewhat lengthy article, but as it is a very important subject, I must ask your readers' indulgence. To start intelligently let me ask all who doubt the advisability of such soil for this particular purpose, why do farmers continually change their crops—and they have been doing so for centuries, at least such is a fact if we can believe our own eyes and some of what we read—or coming nearer to the point at issue, why

do we find that crops of almost everything we grow in the garden do much better if changed from one part to another every year?

Many will probably answer this by saying those are old-fashioned notions. Well, possibly they are, yet in my short experience (for forty years in horticulture is but a short apprenticeship, after all) I have repeatedly found that the same kind of a crop planted in the same place two seasons in succession has invariably given much poorer returns the second season than the first, and farmers generally with whom I have discussed this subject from various standpoints, all admit the same to be true. Chemistry can help to modify this materially by the addition of chemical fertilizers to restore to the soil the elements necessary for the full development of such crops, and possibly the same law may apply to the cultivation of roses under glass, but for one I candidly confess that I do not know enough about fertilizers to trust to their efficiency to grow roses, for although I have been experimenting more or less with these for the whole portion of my life which I have devoted to horticulture, yet as above stated, I know so little about them except their ability to do injury to crops, through my inability to tell what they contained that was injurious. A good deal of the trouble on this line may have been caused by trusting to inexperienced help to apply it, for it must be left to others for application. At any rate I have never been able to do all the work on my place with my own hands.

But coming down to hard facts regarding growing, I have repeatedly tried, for experience sake, to grow roses in soil which has been used for the same purpose in former years, adding what I considered safe elements to restore its vitality as far as possible. In some cases the soil was allowed to lay three years, growing other kinds of crops before using again. In other cases it was allowed to rest only one year before being replanted with roses; but in every case, whether the soil had been all the original rose soil, one-half, one-third or even one-quarter mixed with entirely new soil, the results have always been a proportionately reduced yield for the season wherever it was used. In these experiments I have always been very careful to use it in the same house and in the same position as nearly as possible to compare with maiden loam, and in making up the various grades of compost have always tried to add an equal amount of manure and other fertilizers to each lot, the object being to make the cost of each as nearly equal as possible, a careful record of the product of each being kept for the whole season after, with the result always a deficit against the old rose soil somewhat in proportion to the amount used.

What led me first to make these experiments was the inconvenience in getting new soil every year, but finally we were compelled to admit that to persist in the use of old rose soil was too expensive, no matter how inconvenient it might be to obtain new, fresh soil. These experiments were carried on principally with rather a light grade of soil, though we have tried the same experiments in that of a clay texture with the same results. To go back much farther and outside of greenhouse culture, I have a very clear recollection of the result in a rose garden proper, during my apprenticeship days.

An odder came forth that a large addition must be made to the rose garden. For the new part added, new soil, or what is generally termed maiden loam from an

old pasture was carted in to the depth of about twelve inches, but for the old part only a portion of new soil (three to four inches) was added after all the old rose plants had been carefully lifted and planted elsewhere, but a very liberal dressing of manure, some soot, fine ground bone, etc., was given to the old and new in equal proportions. An entirely new lot of roses were bought for the whole and planted with equal care. At that time I was not at all posted in the requirements for any special crop or plant, but as I had to keep this particular garden weeded, cleaned, etc., for the next three years I had good opportunities to watch it in every way, and for some time it was a great puzzle to me to know why those plants in the old part of the garden did not produce as fine blooms or the plants make as clean vigorous growth as those in the new soil; finally I appealed to the head gardener for the reason, and got in return a very careful synopsis of the why and wherefore, to the effect that crops do not succeed on the same soil successively; and from that day to the present time I have noted these results with more than ordinary interest. There may be plenty of exceptions in various classes of soils to the above results, so far as rose growing is concerned, but they have never come under my own direct observation.

To restore old rose soil to a condition suitable for roses successfully, I think there is nothing better than sowing it down with grass seed, principally Kentucky blue and Rhode Island bent, and then let cows, sheep, etc., graze it continually. The root fibre of these grasses is very beneficial I find in rose growing, and old rose soil so treated can be used again safely in five or six years if required, but even then I have found that old pasture sod in which roses have not previously been grown is preferable to our system of cultivation.

If the experience of other growers differs from mine, I would be very pleased to see the same recorded in your paper, and, I know a great many readers of the *FLORIST* would like to know how to utilize their old rose soil to the best advantage, as it is a very expensive item in many cases to procure new soil every year, particularly where it has to be carted from some distant point.

It is true that really good roses can be grown in a great variety of soils, from very light sandy loam to almost a clay, the principal thing required being a careful study of the treatment needed for the different grades, but in each and all of them as far as I have experimented, a new soil for each planting is most desirable and will give much the best results.

Summit, N. J. JOHN N. MAY.

#### ANOTHER OPINION.

I would say that maiden loam is not essential in growing roses under glass, although most rose growers are of the opinion that it is. I have, this year, used loam that had been employed for rose growing some four or five years ago; then put out and sowed in with grass, and last year again put in the benches for roses, and my results this year have been as good as ever. I had both quantity and quality, thus proving to my entire satisfaction that maiden loam is not essential.

West Hoboken, N. J. ERNST J. ASMUS.

MESSEDA, ILLS. Benjamin Moss, for years in the trade, died on June 5.

#### Fungus Diseases of Hollyhocks.

In 1896 a row of hollyhocks was set in the plant hospital for a study of the diseases that of late years have attacked this plant. During 1897 the plants were sprayed with various compounds, Bordeaux being among the number. The leaf spot caused by the fungus *Cercospora althæina* Sacc. was the first to appear and it increased upon the untreated plants until the close of the season. Upon the sprayed plants it did only a small amount of damage. The leaf spot is quickly recognized by the angular spots, which at first are small and brown, but increase in size and become ashy white in the center with a dark border. The center of the spot sometimes falls away leaving the leaf full of irregular "shot holes," and the foliage thus badly affected drops, leaving the hollyhock stems bare for the lower portion.

There is another fungus disease of the hollyhock that is quite common in some



HOLLYHOCK RUST.

grounds. This is called a leaf blight and is due to *Phyllosticta althæina* Sacc. It differs greatly in its destructive work in the hollyhock from the *Cercospora* above mentioned. Instead of the numerous angular specks and spots the fungus attacks and destroys the whole of the tissue of the area infested and may involve a spot as large as a half dollar and the blighted portion becomes dry and breaks away leaving large holes with a ragged outline. This leaf blight of the hollyhock is checked by spraying with the Bordeaux mixture.

There is a disease of the hollyhock that has proved quite destructive to seedlings in the greenhouse. This appeared in several propagating establishments about ten years ago, and was so serious that some firms gave up this crop and only within the last year or two are they taking up hollyhocks again. A grower only a short time ago told me that the only successful way for him was to move away from the trouble, that is, he grew his hollyhocks several miles from the old houses and only brought them home to fill orders. This is a valuable, practical hint to all who are seriously menaced by destructive fungi.

The fungus in question is an anthracnose due to the fungus *Colletotrichum althææ* South. It attacks the leaves,

either the blade or veins, and frequently the leaf stalk is destroyed by it. The stems do not escape and are badly blotched by the fungus. A blackened and shriveled appearance of the hollyhock plant is a suggestion that this fungus is at work. This fungus has never yielded successfully to spraying so far as the writer has observed.

The last fungus disease of the hollyhock to be considered, and the one most to be dreaded, is a genuine rust, due to the fungus *Puccinia malvacearum* Mont. It is easily recognized by the orange blotches upon the leaves and the globular masses of spores of a brown color usually upon the under side of the leaf, but may also appear upon the stem, petiole or even the parts of the flower. From observations made upon it within the past few weeks the rust evidently remains over the winter in the tuft of leaves formed in autumn that cluster close to the ground. The spores produced by these quickly germinate and spread the disease.

As a precaution all the autumn leaves, when rust is found, should be gathered and burned. Spraying with Bordeaux will help to keep the rust in check as experiments at the plant hospital show. The accompanying engraving shows a view of a portion of a rusted hollyhock leaf with all the parts several times magnified. The rust spots are circular.

BYRON D. HALSTED.

#### Anemones.

F. Supoit of this city (Philadelphia) has been sending in quite a lot of anemone flowers for a month past. They combine all the colors of the rainbow from white to a dark maroon, various shades of yellow, light violet to a dark blue and some with pretty green tints. They are both self colored and variegated. The blossoms are from two and one-half to three and one-half inches in diameter, with stems from eight to twelve inches in length. Mr. Supoit plants the roots or tubers between his violet rows in the fall and as the violets go out of flower in the spring, from the first to the middle of April, the anemones make their appearance and commence to bloom, continuing until the first of June. They make a very welcome addition to the cut flower list at this time of year and when better known will, we think, be largely grown, particularly by florists who both grow and retail their stock.

ROBERT KIET.

#### Chrysanthemum Notes.

Specimen plants at this time will be making the foundation for future results and must not, therefore, receive a check from any source. Watch them closely that they do not dry out too much, as this will cause the wood to get hard and prevent them from breaking freely. But they should not be overwatered or a bad case of yellows will be the result. Keep the growth topped back as evenly as possible to insure a well shaped plant and remove all suckers as soon as they appear. If the pots are well filled with roots, give the plants another shift, using a rather coarse soil with plenty of drainage, and pot them firm.

This is the time to get stock propagated for single-stem pot plants, and for market specimens to be sold in 5 or 6-inch pots. Care should be taken that the cuttings wilt as little as possible after they are put into the sand; they need copious waterings, frequent syringings and should be shaded from direct sunlight. With this treatment they will root readily in a short time, when they should be potted

up and not allowed to stay in the sand and become hard. Among the most suitable varieties for single-stem pot plants are Major Bonnaffon, Mrs. H. Robinson, Ivory, Jennie Falconer, Mrs. Perrin, W. H. Lincoln, Mutual Friend, Mayflower, and Jayne. It is best to take all varieties with full solid centers for such purposes, it being a difficult matter to get the substance into varieties like Maud Dean and Mrs. Jerome Jones; when grown from June-struck stock it is necessary to cover their centers. Vivian Morel is another good one for single-stem plants, if they can be used when just right; but if it is necessary to keep them a little while they soon lose their fine form and become flabby. In

#### New York.

THE BUSINESS SITUATION.—LADIES' NIGHT AT THE FLORISTS' CLUB NEXT MONDAY.—WEDDING OF W. R. SIEBRECHT.—LOCAL LINES.

Business shows a little improvement since June 1, and is probably due as much to the reduced cut of flowers as to any other cause. Roses show the greatest falling off, both in quality and quantity, but there are still enough of them to supply all the stores and all the Greeks. Paeonies are now in their height and sell well for garden flowers. The retailers would be glad to have them all the year round, at summer prices. Lilies are sell-



ANEMONES.

selecting varieties for market plants pick out those of short stocky growth, of which the following varieties are examples: Mme. Bergmann, Midge and Ivory, white; Yellow Queen, H. L. Sunderbruch, Henry Hurrell and W. H. Lincoln, yellow; Geo. W. Childs and Defender, red; Mrs. Perrin and Louis Boehmer, pink. C. W. JOHNSON.

ing well and there is a noticeable improvement in the demand for lily of the valley. The first outdoor roses are making their appearance, and the indoor crop may discern trouble ahead for the next two weeks without putting on spectacles.

On Monday evening, June 13, will occur the first ladies' night in the history of the New York Florists' Club. In fact, the

last time the fair sex participated in any of the club's functions was the trip to Iona Island during the S. A. F. convention here just ten years ago. A most enjoyable evening for all is assured.

Wm. R. Siebrecht, youngest son of H. A. Siebrecht, was married to Miss Alice May Lent at New Rochelle on Tuesday evening, June 7.

Clucas & Boddington have taken the American agency for C. Vanderweyden & Sons, of Noordwijk, Holland.

Some splendid plants of the useful *Cattleyas Percivalliana* and *Triane* will be offered at Fritz Dressel's auction sale.

#### Boston.

THE RHODODENDRON SHOW.—A FINE DISPLAY.—ELEGANT ORCHIDS AND MANY NOVELTIES.—DULL BUSINESS IN CUT FLOWER STORES.—TENDENCIES OF THE MARKET.—M. H. NORTON SICK.—JACKSON DAWSON'S MINATURE PEACHES.—A FAILURE.—POND LILIES IN.—VISIT TO MR. NEVINS.—PRONY SHOW POSTPONED TILL JUNE 18.

The annual rhododendron show, which was held on June 7 and 8, was a very creditable affair and crowds of people enjoyed the great masses of brilliant color that completely filled lower Horticultural Hall and half-filled the upper one. The Hunnewell premiums for rhododendrons were not all competed for. In the hardy section James Comley won first prize for twelve and Kenneth Finlayson for six, but in the tender section Kenneth Finlayson won the only award, that for single truss, the variety shown being *Sigismund Rucker*. There was no lack of exhibitors, however, although they did not compete. The display from Mr. Hunnewell's own place was as usual superb, filling, together with his hardy azaleas, a wide table the entire length of the hall. Mr. Comley also filled a table of equal size with rhododendrons, azaleas and branches of flowering and ornamental foliaged shrubs. W. N. Craig, Mrs. A. W. Blake, Wm. Thatcher and others also contributed rhododendrons in considerable quantity. James Comley, T. C. Thurlow and Wm. Thatcher all showed hardy azaleas extensively, many of Mr. Thurlow's being seedlings fully equal to the finest named varieties. Mr. Thurlow also showed peonies of the officinalis and tree varieties and ornamental foliaged and flowering trees and shrubs.

The best display of hardy ornamental trees and shrubs came from Wm. Martin, gardener to N. T. Kidder. Nothing in the collection attracted more attention than the showy *Viburnum tomentosum*. F. S. Davis, James Wheeler and Carl Blomberg all showed fine collections of aequilegias, the premiums going in the order named. Pyrethrums, oriental poppies and carnations from W. N. Craig, beautiful novelties in hardy perennials from Rea Bros., water lilies from H. A. Dreer, gloxinias from James Wheeler, German irises from Wm. Thatcher and promiscuous flowers from Mrs. E. M. Gill, all came in for their share of admiration. There were six large exhibitors of wild flowers and this department seemed to be the especial favorite with the lady visitors who crowded around the exhibits reading the names and discussing the habitat and history of each little variety.

The table of orchids from Wm. Thatcher, gardener to John L. Gardner, was beautifully arranged and seemed like a reminiscence of the glorious old days when David Allan, Wm. Robinson and C. M. Atkinson strove for supremacy. It contained *Cattleyas*, *dendrobiums*, *odontoglossums*,

*miltonias*, *cyripediums* and *oneidium*s in abundance and was edged with small ferns and grasses. A plant of *Arides Fieldiana* from this exhibitor was much admired. Kenneth Finlayson staged three large pans of *Cypripedium Lawrenceanum* and Wm. Donald, gardener to J. S. Bailey, a well bloomed plant of *Cattleya Gaskelliana*, *Laelia-Cattleya Chas. G. Roebling*; a cross between *Cattleya Gaskelliana* and *Laelia purpurata alba*, was shown by H. T. Chinkaberry, gardener to C. G. Roebling. From W. A. Manda came an interesting group of fine novelties including *Laelia elegans*, *Vanda tricolor*, an enormous rose with large pale creamy flower and remarkable glossy foliage that has proved to be evergreen, the past winter. A seedling *fuchsia* of elegant drooping habit, from Walter Hunnewell received honorable mention.

The cut flower trade is not what it should be for June. Most of the large establishments admit that the season's business fell short of the record and although Memorial Day helped the average, the dullness of June will offset this advantage and the year's trade will compare unfavorably with that of recent years. Roses are somewhat scarce and of those that come in many are small or mildewed, so the quotations on all varieties of roses show an advance over last week. Carnations have gone the other way, they are over abundant and are sold out with difficulty, many lots of average quality realizing per 1000 the same figure they brought per 100 on Memorial Day. Lilies have also lost their grip on the market and are selling low. Lily of the valley is of extra quality with prices tending upwards, thanks to the influence of the June weddings. Sweet peas are abundant and cheap. There are bushels of spiraeas and similar coarse material on the market and their end is, oftener than otherwise, the dump cart. Cornflowers are now coming in; the blue ones bring \$1 per 100, other colors half that price.

"Down town" is in sack cloth and ashes on account of the absence of M. H. Norton who has been quite sick for the past week at his home in Dorchester. Mr. Norton's daily trip "down town" was as regular as the sun's rising and equally welcome, and he is greatly missed. On Sunday and Monday his illness took a dangerous turn but later reports are reassuring and there is joy "down town" in consequence.

Jackson Dawson is a veritable wizard when it comes to propagating and grafting, as all know. The latest proofs of his skill are some little peach trees, fifteen inches high, in 5 inch pots, which were grafted only last January and are now bearing ripe fruit. A 15-inch plant with five rosy-cheeked peaches on it is a tempting sight although the fruit is ornamental instead of eatable. Otaheite oranges are thrown completely into the shade.

George A. Black, of Brighton, has failed. Twenty per cent is being offered his creditors to compromise their claims.

The first pink pond lilies of the season have been coming in during the past week and are seen at all the wholesale establishments.

The Garden Committee of the Massachusetts Horticultural Society visited the estate of David Nevins, at South Framingham, last Wednesday and had a most enjoyable time.

The prony show announced for June 11 has been postponed until Saturday, June 18, on account of the lateness of the season.

Nivea carnation has made a great record for itself at Welch's this season.

Visiting Boston: D. McRorie representing W. A. Manda, South Orange, N. J.

#### Chicago.

FLORISTS' CLUB WILL SUBSTITUTE PICNICS AND EXCURSIONS FOR ITS USUAL MEETINGS DURING THE SUMMER.—TRADE CONDITIONS.—NOTES AND COMMENTS.

At the meeting of the Florists' Club Friday evening, June 3, it was decided to discontinue the regular meetings of the club during the summer and have instead a series of excursions among the growers, as was done last season. A number of places were suggested as likely to be interesting, among them Henry Hihmer's and Heim Bros., at Blue Island; Weiter Bros. and Reinberg's, Chicago; Poehlman Bros., Morton Grove, and Geo. Souster's, at Elgin, Ills. The proposed trip to Milwaukee was discussed and the impression seemed to prevail that the excursion would draw out a large number of florists and their friends. The matter was left in the hands of the entertainment committee.

After the meeting the bowlers repaired to the alley, where Geo. Stollery, who is somewhat of a dark horse among the bowlers, surprised the boys by running up a score of 183 in the first game. Ed. Winterson had the highest average, 164.

There has been a slight improvement in trade this week. Good roses and carnations are not quite so plentiful, American Beauty and Kaiserin being about the only good roses on the market. Beauties are in good demand, both for shipping and local retail trade.

The spring plant trade is about over, and many of the growers are sold out. They report that trade has been fully up to last season. There were not enough scarlet geraniums grown to supply the demand and many growers were sold out before the season was half over.

Basset & Washburn have built a cold storage room in their store and will take their stock to this room direct from the greenhouses. They will do all the sorting and packing in it during the hot weather.

Herman Schiller has purchased from Mrs. Kuske her half interest in the Schiller & Kuske greenhouses and grounds at Niles Center, Ills. Mr. Schiller will put the place in first-class order for the purpose of growing stock for his two retail places in the city. These houses were the first built about Chicago for the especial purpose of furnishing cut roses for the Chicago market.

The firm of Felke & Miller dissolved on June 1 by mutual consent, N. P. Miller retiring. J. Felke will continue the establishment at Wilmette, and also the retail store, assuming full control. N. P. Miller will go into growing carnations and chrysanthemums and bedding stock for the wholesale market.

N. G. Axtell, of the Sweet Pea Farm at Evanston, Ills., to-day opened a city salesroom with Vaughan, McKellar & Winterson, at 47-49 Wabash avenue.

Visited Chicago: Z. K. Jewett, Sparta, Wis., enroute to the Omaha convention.

BUFFALO, N. Y.—Nieces and nephews of Charles F. Cutter, seedsman, are endeavoring to break the will by which Cutter left an estate of \$15,000 to friends in East Aurora. The relatives allege that Cutter was mentally incompetent to make a will.

**THE AMERICAN FLORIST**

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26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.  
Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE plant of M. W. is a species of thra-  
lictrum. The complete name cannot be  
given without the flower.

JAMES J. LAWLER, of New York, who  
is well known through his series of arti-  
cles on steam and hot water heating  
which is proving of great value to readers  
of the AMERICAN FLORIST, has been in  
attendance this week at the national con-  
vention of Master Steam Fitters at  
Milwaukee.

#### The Japanese Name for the Crimson Rambler.

The *Journal des Roses* states that  
among some plates of Japanese roses  
(principally wild ones) published in that  
paper, in 1886, is a plate corresponding  
exactly to Crimson Rambler. The dis-  
cription is exact as well as the plate and  
it is no doubt the same rose. The Japa-  
nese name is given as Sakoura-Ibara,  
literally cherry rose.

#### Hail Insurance.

"Some people deery hail insurance,"  
write Robt. S. Brown & Son, of Kansas  
City, "on the ground that they have  
never met with loss. In the thirty-one  
years we have been in business we never  
suffered from a storm but that did not  
prevent our joining the Florists' Hail  
Association and we have been thankful  
for it since May 14, for in twenty minutes  
that afternoon we lost 28,000 feet of  
glass. We received our check promptly  
and as soon as we can get the glass  
replaced we shall re-insure as we regard it  
as a safe investment."

#### Canna Nomenclature.

ED. AM. FLORIST:—In your issue of June  
4 appears a notice to the effect that a  
canna has been registered by the Conard  
& Jones Co. under the name of Admiral  
Dewey. Inasmuch as we notified the  
public under date of May 21 in the AMER-  
ICAN FLORIST and other journals that the  
name Admiral Dewey had been adopted  
by us for one of our new cannas, we beg  
to ask if we are not entitled to priority,  
being the first to advertise the fact? We  
mailed our notice to you May 14.

A. BLANC & Co.

[Evidently this a case for the S. A. F.  
canna committee, and if their jurisdiction  
has not up to the present included the  
nomenclature of cannas, it should do  
so.—Ed.]

#### Society of American Florists.

##### PURCHASING DEPARTMENT.

Those who have not yet replied to the  
circular of the committee of the depart-  
ment of purchase are earnestly requested  
to do so immediately, so that the com-  
mittee can collate the quantity of sup-

plies, such as coal, glass, steam and  
water pipes, hose, etc., required for the  
year ending April 1, 1899, and thus be  
enabled to early obtain bids for the same.

EDMUND M. WOOD,  
WM. K. HARRIS,  
W. W. COLES, } Committee.

Address all communications to W. J.  
Stewart, Secretary, 67 Bromfield street,  
Boston, Mass.

#### Cut Flower Price Lists Received.

City Hall Cut Flower Market, Boston;  
Holton & Hunkel, Milwaukee; Wm. F.  
Kasting, Buffalo; Louisville Florists'  
Supply & Exchange, Louisville.

#### Catalogues Received.

Gorton & Lidgerwood Co., New York,  
N. Y., boilers; The Richmond Stove Co.,  
Norwich, Conn., heaters; F. O. Pierce Co.,  
New York, N. Y., mastica; J. H. H. Boyd,  
Gage, Tenn., tree seed; Frank Brunton &  
Co., Boston, Mass., plants.

#### Greenhouse Building.

Morristown, N. J.—J. T. Pyle, rose  
house 20x50, palm house 20x50.

Chicago, Ill.—George Wittbold, con-  
servatory 35x100.

Milwaukee, Wis.—Conservatory at  
Mitchell park, to cost \$30,000.

South Pasadena, Cal.—Raymond Hotel,  
rose house 24x100, and large propagating  
house.

Knightstown, Ind.—Beeman & Kowzel-  
man, three commercial houses 20x100.

Madison, N. J.—John J. Foley, four  
greenhouses.

Warren, R. I.—Geo. W. Arnold, one  
forcing house.

Avondale, Pa.—E. J. Cloud, one carna-  
tion house, 22x80.

Bayside, N. Y.—William Bell, two car-  
nation houses.

Newton, Mass.—H. W. Kimball, one  
greenhouse 20x60.

#### Floriculture in British Columbia.

ED. AM. FLORIST:—Some reader of the  
AMERICAN FLORIST would greatly oblige  
by stating whether gardening or floricult-  
ure is carried on to any extent in British  
Columbia, what part would he recom-  
mend as the best and the wages usually  
paid. J. F.

There is no extensive floriculture in  
British Columbia. Victoria, with 12,000  
white population, has ten florists inad-  
equately supported. Vancouver, the next  
largest city, is not quite so badly over-  
done. Nanaimo and New Westminster  
have never been able to support one flor-  
ist properly. The summer season is  
fairly good for fruit and flowers but pro-  
ducing crops is expensive business as  
water costs 20 cents per 1000 gallons.  
Chinamen grow and sell vegetables all  
over the province and are also employed  
to do most of the private gardening. The  
few white gardeners get about the same  
wages paid in Ontario. J. Mc. T.

#### Chemical Analysis of Plants as an Indica- tion of Fertilizers Required.

One would naturally suppose that a  
careful chemical analysis of the plant,  
roots, stems, leaves and flowers—would  
be an excellent indication of the relative  
proportions of lime, phosphorus, potash  
and nitrogen to be applied as manure. It  
has been an accepted fact however,

among scientists, that such is not the  
case. Some experiments at Wye, Eng-  
land, noted in the *Gardeners' Chronicle*  
show the fallacy of this idea very clearly.

Pandelion plants were carefully selected  
from different soils, washed, dried and  
analyzed, for lime and phosphoric acid.  
Lime was found to vary from 12.8 per  
cent. to 48.8 per cent. of the total ash of  
the different plants and phosphoric acid  
varied from 2.5 per cent. to 10 per cent.  
of the ash.

The conclusion reached is that the  
analysis if anything, shows more as to  
the needs of the soil than the require-  
ments of the plants; that is to say, the  
plant will take an excess of the element in  
the soil which exists in greatest quantity  
and most available conditions, and a  
much less amount of that element which  
is deficient in quantity or not so available  
in form.

Analyses of the soil have also been  
shown to have little value in determin-  
ing what manures to apply and the  
grower must depend on experiment with  
each soil to give him the required infor-  
mation. X.

#### A Fourth Report on Chrysanthemums.

This is bulletin No. 147 of the Cornell  
Experiment Station, by Wilhelm Miller.  
It is divided into several heads, viz.,  
"The Economic Status of the Chrysan-  
themum," "Suggestions on Growing  
Chrysanthemums at Home," "Controll-  
ing the Color of Chrysanthemums,"  
"Crown and Terminal Buds" and "The  
Cornell Varieties of 1897."

Under the first head the statement is  
made that the chrysanthemum industry  
in New York State probably involves  
more capital than the growing of peaches.  
As exact facts are not to be had in this  
matter, we will not be permitted to ques-  
tion the accuracy of this statement, but  
can not be prevented from having our  
own opinion.

The second section is a very readable  
talk with the amateur. One can not help  
feeling, however, that the illustration of  
"An amateur's ideal" is a mistake and  
wishing that a nice compact plant of  
Ivory Midget or some one of the many  
dwarf growing varieties had been shown  
in its place. The natural tendency of  
amateur methods of cultivating chrysan-  
themums is towards long-legged, weak-  
necked growth, and the dwarfest and  
stockiest varieties are to be recommended.  
A six-inch pot plant with five visible  
stakes is hardly to be recommended as  
an ideal.

Two experiments looking to the con-  
trolling of the pink color in chrysanthe-  
mums are described. One trial was by  
shading the glass and comparing results  
with unshaded glass. This was found to  
be decidedly injurious, as might be ex-  
pected, with a number of varieties, the  
color being very uneven and poor.  
Another attempt was by feeding the  
plants in one plat with an excess of nitro-  
gen over the other. No definite results  
were obtained from this experiment.

Eleven pages are taken up with a dis-  
cussion of crown and terminal buds which  
is practically a reprint of a recent article  
by the same author and covers ground  
many times carefully discussed both here  
and abroad.

In the variety test 166 varieties were  
grown in one house six flowers to the  
plant. This will explain why the test is  
of no value commercially and why the  
conclusions reached in a number of cases  
are entirely at variance with accepted  
commercial facts. X.

Philadelphia.

PLENTY OF STOCK AND TRADE FAIRLY ACTIVE.—THE PEONY EXHIBITION WAS A SUCCESS.—FINE EXHIBITS AND AN INTERESTING DISCUSSION.—EULOGIES OF THOS. CARTLEDGE.—PLANS FOR THE TRIP TO OMAHA.

Business for the past week has been fairly active, a good sized crop of spring weddings together with school commencesments keeping the florists busy. There has been an abundance of stock of all kinds, although the quality leaves much to be desired. Prices are about the same as last week, but the stock is not counted quite as close. Carnations are showing the effects of the heat and continuous forcing. Cornflower is in demand to help out with its patriotic azure. Peonies have almost swamped us the past week. The warm weather seems to have brought them in all at once, and they have not been a very remunerative crop to the grower. Quite an improvement is noticed in the assortment of varieties coming in, and there will, no doubt, be a good market for selected flowers at fair prices in the future.

The peony exhibition at the Florists' Club was quite an interesting display. Messrs. Lonsdale, Heacock and the H. A. Dreer Co. staged some nice flowers. The new single varieties from Japan in the Dreer collection, their own importation, were very fine. There is but one row of cup-shaped petals, but a great bunch of yellow stamens fills up the center of the flower, and in the pink varieties gives the appearance of a great water lily. They come in various shades and are very beautiful as a cut flower or for lawn decoration. The single kinds will meet with much favor when better known. Edwin Lonsdale's collection also had some pretty new ones, a very few double and others quite distinctive in color.

Mr. Heacock, who read a short paper, does not think they are bread winners as cut flowers, but thinks there is a market for limited quantities of good blooms. Robt. Craig expressed himself as confident that there is a future for the peony if it is not overdone. Mr. Westcott said that the florists are always getting in their own way by overproduction; that they have spoiled the chrysanthemum and hurt the rose and the carnation by this process.

After the peony discussion a eulogy on Thomas Cartledge, prepared by Pres. W. K. Harris, was read by Robert Kift. It was directed that the paper be spread upon the minutes. Rob't Craig, Mr. Westcott, Mr. Farson and Mr. Lonsdale also spoke, the latter saying that he received more inspiration in a business way from Mr. Cartledge than from any other one person in the business. It was ordered that a crayon portrait of Mr. Cartledge be hung in the club room.

Several active and associate members were elected and the "Convention at Omaha" was selected as the subject for the next meeting. The matter of cost of the convention journey was touched upon. The railroad fare will be either \$31 or \$40, depending on whether half fare is secured or full fare going and one third returning. Sleeping car rates one way will be \$7. The journey will require 26 hours, which, with meals, will make the full transportation charges in the neighborhood of \$60. Should the half fare rate be secured this will be reduced to \$50.

There is to be a grand patriotic parade in this city on the Fourth of July. The florists are requested to have floats arranged to carry out some patriotic

idea, and they will receive \$50 each to help them. Probably twenty-five floats, representing as many firms, will be in line. K.

Ornamental Bedding.

PART VIII.

While I have now given directions as concise as possible for the laying out of different forms of beds, I have yet to explain how to "read" a plan or diagram of such a bed. There is, then, three different cases to consider; either the design is drawn according to a scale or the dimensions necessary for the outline of the bed are given. Then we have designs where neither scale nor dimensions are given, especially designs from books. Where a

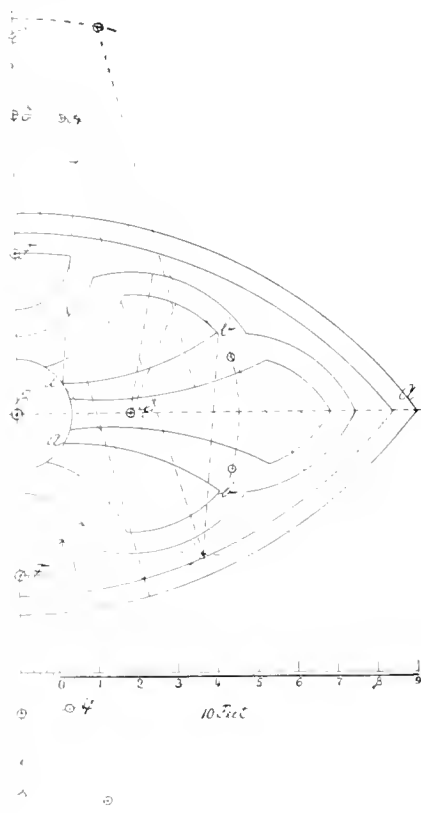


Fig. 32.

design is drawn to a certain scale, say one-fourth of an inch to a foot it means that each one-fourth inch on paper represents one foot on the ground; consequently one inch is equal to four feet, one-eighth inch to six inches, etc. This scale is also called one-fortyeighth, as this is the proportion in which it is drawn. A carpenter's rule can be used for reading the different measures, but a draughtsman's scale is handier.

When the principal dimensions only are given we have to make a scale for ourselves. If, for instance, in a circle with a radius of six feet we draw a straight line on which we mark the length of the radius and divide this in six equal parts, each of these representing one foot, the end one of these we can divide in two, three, four, six or twelve parts each representing respectively six, four, three, two or one inches. Fig. 32 shows such a scale ten feet long, the foot to the left being divided into six parts, each equal to two inches.

When we have a design not drawn to any certain scale and with no dimensions given, we have to study its nature according to the rules given for the planting. Considering that a single row of alternanthera cannot occupy less space than

three inches in width without being trimmed hard, and a single row of coleus not less than six inches we have some hints to guide us; these, together with the general nature of the design will give us an idea of the smallest size in which it can be planted, and it will then allow of some variation. When this is decided on we have only to make a suitable scale as above mentioned.

The main thing in reading a design is to find the centers. When it is an original drawing we can generally see where the dividers have perforated the paper by holding it to the light and we can soon select the necessary ones, if a blue print or any other reproduction, we have to find them by construction.

Fig. 32 represents one-half of Fig. 24 drawn to a larger scale. We find that it consists of four symmetrical parts, two of which are shown here, by drawing line *a-b* from end to end and constructing line *c-d* we have it quartered. In this line, *c-d*, we have the centers for the outline of the bed and the inside line of the border. By setting one point of the dividers on the line, about where we judge the center to be, adjusting the other point to *a* and describing the curve from there, we can see how near it is true. If this curve is flatter than the original, our radius is too long and we must move the point on the line closer towards the center; if it is rounder than the original, the radius is too short, and we move the dividers further out. When we find the center, *e*, we mark it with a little circle, as shown on the illustration. The corresponding center is on the other side at the same distance from *b*. *B* itself is the center for the circle in the middle. The centers *f* are also found in line *c-d*, while centers *g* are in line *a-b*, one to each side of *b*. The centers *h* for curves *a-b* are found by constructing for one of the curves the perpendicular on the middle, with which construction we are now familiar, and then proceeding as directed for finding center *e*. When found set one point of the dividers in *b*, adjust the other one to *h*, draw a curve across line *c-d* above and below, mark the distance from *h* to line *c-d* (in this case *h-e*) on each side above and below, and that gives you these four corresponding centers. Find the other centers in the same manner, and after this you only have to read them on the scale.

Fig. 33 shows a different way. When there are many centers to find it takes time, and we may not after all get them exactly true; in such cases we can draw auxiliary lines on the diagram, with pegs and twine we can mark them on the ground and then draw the design free-

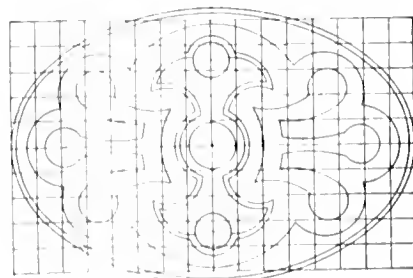


Fig. 33.

hand. This is Fig. 23 and the lines are drawn 1 foot apart each way. The ellipse is of course laid out on the ground as formerly directed and the axis major and minor help to get the lines true.

When the design is laid out, we are ready for the planting, which for the more complicated designs is quite a diffi-



cult task. The plants should be stocky and well-hardened; with long, drawn material nobody can do decent work. The alternantheras should be well colored, and those grown in boxes or hotbeds are better than the pot-grown stock. For large plants, as cannas, the spade is the best planting tool, one man lifting the soil and another one setting the plant. For ordinary sized plants the trowel is our mainstay, and a good strong steel trowel is the cheapest in the end. For

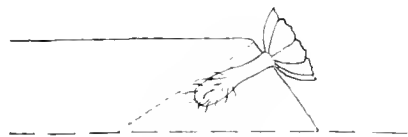


Fig. 34.

small plants the fingers can be used if it is a small job and the soil mellow, otherwise, or when the nails are worn to the quick, a small pointed stick or the smallest size of transplanting trowel can be used. In designs drawn as these, the plants must not be planted in the lines, but only to the lines, as these represent the boundary of the different colors; for that reason the best planter should do the outlining, and almost anybody used to planting can do the filling. The design of the bed is planted first, the ground color last. The plants should be set nice and even; if they are not all of one size, the taller ones are planted a little deeper to equalize matters, and it may be necessary to pinch off a few stray shoots that reach above the others.

And now a few words about the planting of echeverias; these little plants give the prettiest effects when they are outlining the bed or parts of the design or both; they should, however, be planted sloping, so that they at the same time raise the bed. How to do this planting is rather a difficult matter to explain.

Fig. 34 shows the operation. The soil is made wet so that it sticks like putty and will "stand" by holding one hand on the line with the desired slope and pressing the soil against it firmly with the other hand in a shape as the dotted line shows, then the echeverias are laid firmly in this and soil pressed on top; after this soil is filled in to make the surface even. If the outline of the bed is planted and raised in this manner, the design cannot of course be laid out until this is done.

By right a carpet bed should look perfect when planted, but that takes many plants and makes the bed expensive, and on this account such beds are generally planted with a little space between the plants. Until the plants are well established and fill the bed, they should be watered well, but from that time they should only receive water when they need it, otherwise they grow too fast and the best colored leaves fall for the shears.

H. HANSEN.

### New Haven, Conn.

MAY BRINGS TO MEMORY THE TIME OF BROTHER NOAH.—TRADE SHOWS A FAIR DEMAND AND NO OVER-SUPPLY OF STOCK.—THE VIOLET, CARNATION AND CORNFLOWER.

A little rain may be necessary and more than a little may be received unprotestingly, but when nature weeps on a soaked and bespattered community for twenty-five days out of a possible thirty-one in May most of us feel that we have an excuse for, if not an object in, expostulation. The downpour was too much for plants and

vegetables. Of the former, outdoor shrubbery is all but ruined, and the florists' trade has been unusually good hereabouts in consequence. Vegetable growers are in a sad plight for the early potato crop is particularly affected by the continued rainfall, and strawberries are almost ruined.

One of the consoling effects of the weather of late has been the supply of violets, which were in market a fortnight later than usual. Very seldom are violets sold here on Memorial Day, but this year they could be found in plenty up to this week. But what is meat for violets is poison to carnations, for few have been seen for over a month, and what were on sale have been of poor quality. The sunshine of June, however, brought them out and they are now plentiful. The advent of the cornflower was welcomed to fill up the place left vacant by the going out of the violet. They were in great demand for the Yale-Princeton game of last Saturday, and sold readily for \$2 per 100.

Florists enjoyed a good trade Memorial Day, outdoor shrubs being an unknown quantity. The war, too, seemed to awaken interest in the observance of the occasion. J. A. P.

### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—By young man in a commercial place, wholesale cut flower preferred; five years' experience, good refs. L D B, care Am. Florist.

**SITUATION WANTED**—Englishman; age 28; married; no children; as foreman in good private or commercial place; 15 years' experience; first-class references. Address H A, care American Florist.

**SITUATION WANTED**—As working foreman by a first-class grower of roses, carnations, 'mums, violets and all kinds of pot plants; 14 years' experience, single, German. Best of references. Address A B C, Leavenworth, Kan.

**SITUATION WANTED**—By a married man, competent florist and first-class grower of roses and cut flowers in general; also first-class designer and decorator. California preferred. Address FR. QUICKERT, P. O. Salinas, California.

**SITUATION WANTED**—By all-round and excellent gardener; Belgian; single; speaks different languages; age 22. Private or commercial place; understands every branch of business; good worker; total abstainer; best references. Address V S, New Rochelle, New York.

**WANTED**—A good second-hand boiler, complete; for low pressure system, smaller size. F, care American Florist.

**WANTED**—Two good florists; none but good men need apply. State references and wages expected. F. L. BILLS, Davenport, Ia.

**WANTED**—As foreman, an experienced rose grower for Villa Lorraine Roseries. Apply T W, STEMMER, 36 East 14th St., New York.

**WANTED**—First-class florists' wire design worker. Steady work the year round. Apply with refs. HOLTON & HUNKEL CO., Box 103, Milwaukee, Wis.

**WANTED**—At once, a first-class, all-round florist to take charge of plant of 6000 feet of glass. None but steady, reliable young man need apply; references; state wages. Address F. B. TINKER, Peru, Ind.

**WANTED**—A competent florist and gardener, as partner; have two places. Very little money required to take half interest in either one or both places. For further information address B B, care American Florist.

**FOR SALE**—1000 feet 4-inch water pipes with connections at 4 cents per foot. 523 La Salle St., Chicago.

**FOR SALE**—Well paying retail florist business, store and greenhouses. H. N. BRUNS, 630 W. Van Buren St., Chicago.

**FOR RENT**—Space in store at 451 East 4th St., Chicago, for a florist. Finest location on the south side.

**FOR SALE**—Good chance for man with \$500 and experience to take hold of well-established florist place. Inquire at 410 Milwaukee Ave., Chicago.

**FOR SALE**—First-class retail stand, about 5000 feet of glass; new. Has never paid less than \$100 per year net. Will require \$1000 cash, balance time at 6 per cent. Reason for selling, failing health. Address ILLINOIS, care American Florist.

**TO RENT**—Greenhouse 20x50, well stocked, large two-story potting house, new. In Newark, N. J. Address Box 164, Madison Square Branch, New York.

**FOR SALE**—Four greenhouses, nearly new, splendid retail stand, near business center in residence district on road to cemetery, paved street. Terms easy. Must retire on account of poor health. A. CLAUS, 503 N. 4th St., Springfield, Ill.

**FOR SALE OR RENT**—10 acre tract of land situated on Rock Road, 3 miles from city limits; 1/4-mile from street cars; has 3 100-foot greenhouses; steam heat; sheds; boiler house; also fruit trees. F. HAUSPERGER, 126 W. Broadway, St. Louis.

**FOR SALE**—Florist's place in one of the best cities in eastern Illinois. Three houses, 3700 feet glass, doing a good paying business; city water, telephone and located within three blocks of court house. No competition. Address H D, care Am. Florist.

**FOR SALE**—Greenhouse establishment and residence adjoining in a fine residence section of this city; convenient to business center, with which it is connected by electric cars. General plant and flower business; trade immense. Change of climate necessary on account of health. J. H. CONKLIN, Joliet, Ill.

### FOR SALE!

Three greenhouses; 4 lots in fine shape in the city limits of the best mining town of America; must sell; have mining interests. Address 528 So. 1st St., Cripple Creek, Colo.

### FOR SALE AT A BARGAIN.

Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots 35 ft. front; water, gas and electric light on street; greenhouses, office and barn all newly built with all conveniences; heated by steam. Centrally located in city of 18,000 population in State of Indiana. Competition none to speak of. Leading establishment in the city. Sickness cause of selling. Address INDIANA, care American Florist.

### FOR SALE—Rare Chance.

Five good greenhouses in No. 1 condition and a new steam boiler, large enough to heat 8 houses. The houses are as good as new. The sizes are 10x75, 11x75, 19x75, 22 1/2 x75, 12x50. Apply to

WM. F. BEHRING & CO.,  
509 South 5th St., Richmond, Ind.

### Greenhouses For Sale

Located in the village of Clinton, N. Y., with stock of Plants and Florists' Requisites; 5000 feet of glass; well established; in good order; well-paying patronage; one acre of land; good 2-story dwelling. This is an admirable opportunity for a practical florist.

GEORGE SCOTT, Rome, N. Y.

### CHICAGO LOTS FOR SALE.

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot; sewer and water. Suitable for greenhouse purposes.

P. F. HAYNES & CO.,  
Telephone L. V. 247. 1004 Wellington St., Chicago.

### NOW READY

THE AMERICAN FLORIST  
COMPANY'S

### DIRECTORY

Of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and All Names ALPHABETICALLY.

FULLY REVISED TO DATE WITH  
UPWARDS OF

### 3,000 New Names

Price Two Dollars.  
In Flexible Leather Binding, Three Dollars.

### American Florist Company

324 Dearborn Street,  
Chicago, Ill., U. S. A.

Do not forget to say "saw your ad. in the AMERICAN FLORIST" when corresponding with advertisers.

# FORCING BULBS

We have closed contracts with some of the best and most reliable producers for our stock of Roman Hyacinths, Tulips, Dutch Hyacinths,

Von Sion Narcissus, Paper White Narcissus, Valley, Harrisii, Longiflorum, Azaleas, and all leading Forcing Stock. Give us a list of your wants and we will quote same.

DON'T FORGET THAT WE ARE STRICTLY IN IT ON SUPPLIES OF ALL KINDS, SEEDS, BULBS AND CUT FLOWERS.

VAUGHAN, McKELLAR & WINTERSON, 45, 47 and 49 Wabash Ave., CHICAGO.

**E. H. Hunt**  
THE "OLD RELIABLE" FOR  
WHOLESALE  
**CUT FLOWERS**  
Hunt's Flowers  
Go Everywhere  
76 Wabash Ave., CHICAGO.

## Wholesale Flower Markets

CHICAGO, June 10

Roses, Beauties	per doz.	.75@2.50
" Brides		1.00@ 4.00
" Meteors, Kaiserlins		1.00@ 4.00
" Bridesmaids		1.50@ 4.00
" Gontlers, Perles		1.00@ 3.00
Carnations, common		.40@ 1.00
" fancy		2.00@ 3.00
Marquettes		.50
Lily Oratum		8.00
Harrisii, Callas		2.00@ 4.00
Lily of the valley		1.50@ 2.00
Sweet peas		.25@ .50
Gladoli		4.00@ 6.00
Adiantum		.50@ 1.00
Salix		.10.00@12.00
Asparagus		.40.00@75.00
Pansies		.50
Peonies	per dozen	.25@ .50

**KENNICOTT BROS. CO.**  
WHOLESALE CUT FLOWERS  
AND FLORISTS SUPPLIES.  
WIRE WORK  
A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING**  
Wholesale Cut Flowers  
51 Wabash Avenue,  
W. S. HEFFRON, Mgr. ....CHICAGO.

**A. G. PRINCE & CO.**  
Wholesale Cut Flowers  
AND FLORISTS' SUPPLIES.  
Agents for the Hinsdale Rose Co. Special attention  
paid to shipping orders.  
88 & 90 Wabash Avenue,  
Telephone Main 3208. CHICAGO.

**Lynch**  
WHOLESALE FLORIST.  
19-21  
E. RANDOLPH ST  
CHICAGO

WHOLESALE DEALER IN  
GROWER OF ROSES. CUT FLOWERS.

## J. A. BUDLONG

37-39 Randolph St., CHICAGO.

**ILLINOIS CUT FLOWER CO.**  
Wholesale Florists.  
**J. B. DEAMUD**  
51 & 53 WABASH AVE. CHICAGO.

**A. L. RANDALL**  
Wholesale Florist  
Don't Forget that we are at 4 Wash-  
ington St., Chicago.  
Write for special quotations on large orders.

**ROGERS PARK FLORAL CO.,**  
Wholesale Growers of  
**CUT FLOWERS**  
51 WABASH AVENUE,  
CHICAGO.  
HEADQUARTERS FOR AMERICAN BEAUTIES.

**JAMES M. KING**  
Commission Dealer in  
**CUT FLOWERS.**  
Good Money for your Flowers.  
Good Flowers for your Money.  
49 WEST 29TH ST., NEW YORK.  
TELEPHONE 1875 38th St.

It is not much trouble to mention the AMERICAN FLORIST when corresponding with an advertiser.

**S. B. WINTER,**  
(Successor to WINTER & GLOVER.)  
21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
PACKED RIGHT,  
so they will reach you in just as good condition  
as they reach us.  
**WIRE DESIGNS: A Full Line.** Write us for  
our illustrated Catalogue.

# REINBERG BROS.

WHOLESALE GROWERS OF

## Cut Flowers.

600,000 FEET OF GLASS. We can fill orders on short notice with all leading varieties of Roses and Carnations. We are headquarters for Fine American Beauties. Give us a trial and convince yourself.

WE STILL HAVE FINE SCOTT AND MCGOWAN CARNATION PLANTS AT \$1.00 PER 100; \$7.50 PER 1000.

Plants and Cuttings sent by express at plant rates,  
25 percent less than merchandise rates.

We would call your special attention to our choice variety Plants at \$2.00 per 100 and \$15.00 per 1000.

REINBERG BROS., 51 Wabash Avenue, Chicago.

Our American Beauties are vigorous young plants free from Black Spot.

	Per 100	Per 1000
American Beauties, 2 1/2-in.	\$4.00	\$35.00
" " 3-in.	5.00	45.00
Meteors ..... 2 1/2-in.	2.50	22.50
" " 3-in.	3.50	30.00
Brides ..... 2 1/2-in.	2.50	22.50
" " 3-in.	3.50	30.00
Bridesmaids ..... 2 1/2-in.	2.50	20.00
" " 3-in.	3.50	30.00
Testout ..... 2 1/2-in.	2.50	22.50
Belle Siebrecht ..... 2 1/2-in.	2.50	22.50
Pres. Carnot ..... 2 1/2-in.	2.50	22.50
La France ..... 2 1/2-in.	2.50	20.00

# MacDonald & McManus

... SUPPLY ...

ORCHIDS

EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING  
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE  
2778 38TH STREET

50 West 30th Street, NEW YORK CITY.

## TRAENDLY & SCHENCK, Wholesale Florists,

Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.

38 West 28th St., and Cut Flower Exchange,  
Tel. 981 18th Street. NEW YORK CITY.

**You Want**

**ORCHIDS AND  
LILY OF THE VALLEY**

for June Weddings and Graduations. I can supply you. Order in time....

**JOHN YOUNG,**  
51 W. 28th St., NEW YORK.

## THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,  
112 and 114 West 24th Street,

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CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

## M. A. HART, Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,  
NEW YORK CITY.

THE BEST MARKET IN NEW YORK.  
Phone 1307 38th St.

## Wholesale Flower Markets

NEW YORK, June 8.

Roses, Beauties, Hybrid	2.00@16.00
" Bridesmaids, Testouts, Brides	.50@ 4.00
" Morgans, Meteors	.50@ 2.00
Carnations	.75@ 1.25
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	4.00@6.00
Harrisll	4.00@ 6.00
Smilax	10.00@12.00
Asparagus	40.00@50.00
Cattleyas	50.00
Peonies	3.00@ 4.00

BOSTON, June 8.

Roses Beauties, Brunners	5.00@15.00
" Morgans, M-teors	2.00@ 6.00
" Brides, Bridesmaids Carnots	3.00@ 4.00
Carnations	.75@ 1.25
Lily of the valley	2.10@ 3.00
Cornflowers	.50@ 1.00
Harrisll	3.00@ 5.00
Sweet peas	.20@ .30
Smilax	12.00@15.00

PHILADELPHIA, June 8

Roses, Beauties	1.00@20.00
" Jacs	1.00@ 3.00
" Teas	2.10@ 6.10
Carnations	.75@ 1.50
" extra	2.00
Lily of the valley, Peonies	2.00@ 4.00
Harrisll	4.00@ 6.00
Sweet peas	.55@ .75
Cattleyae	45.00@50.00
Smilax	15.00@20.00

## John I. Raynor,

49 WEST 28th STREET,

NEW YORK.

SPECIAL EXTRA STOCK OF

AM. BEAUTY, METEOR,  
BRIDESMAID, BRIDE.

Record Breaking Carnations  
ALL THE YEAR ROUND.

## THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

## WALTER F. SHERIDAN, WHOLESALE FLORIST,

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Roses shipped to all points. Price list on application.

## Rose Growers

Will find a good market and good returns for their stock at....

JULIUS LANG'S

53 W. 30th Street, - NEW YORK.

Edward C. Horan,

34 W. 29th Street, NEW YORK,

## WHOLESALE • FLORIST

Careful Shipping to all parts of the country,  
Price list on application.

WM. C. SMITH,  
Wholesale Florist,

40 So. 16th St., PHILADELPHIA.

Consignments Solicited. Special attention given to shipping orders.  
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# SAMVELS PENNOCK

1612-14-16  
LUDLOW ST.  
PHILADELPHIA, PA.

## WHOLESALE FLORIST.

## CITY HALL CUT FLOWER MARKET, 9 Chapman Place, 15 Province Street, BOSTON, MASS.

WELCH BROS., PROPRIETORS.

Consignments from regular growers assigned separate space in our market. - We guarantee payment for all Flowers sold. Sales reported weekly; payments monthly, or oftener if required.

THE NEW ENGLAND HEADQUARTERS FOR THE BEST GRADE OF FLOWERS AT ALL SEASONS OF THE YEAR.

## Now They're Cheap!

FLOWERS, ALL KINDS,\*  
PLENTY OF THEM AT

**J. K. ALLEN'S** 57 WEST 28th STREET,  
NEW YORK.  
TELEPHONE 382 38th St.

## GALVIN & CO. Wholesale Florists

AND DEALERS IN ALL  
FLORISTS' SUPPLIES.  
4 Ordway Place, BOSTON, MASS.  
Cut Flower Consignments Solicited. Best market.

## GEORGE A. SUTHERLAND, Cut Flowers and Florists' Supplies

WHOLESALE.

67 Bromfield St., BOSTON, MASS.

Wholesale Florists JOBBERS IN  
ALWAYS ON HAND  
CARNATIONS, BRIDESMAIDS, BRIDES. FLORIST'S SUPPLIES.

*N. F. McCarthy*  
FLORISTS' VASES.  
Horticultural Auctioneers.  
64 HAWLEY STREET, - BOSTON.

## Ford Bros...

Wholesale Florists

111 West 30th Street, NEW YORK.  
Consignments Solicited. Telephone, 260 38th St.

## FRANK MILLANG, CUT FLOWERS,

WHOLESALE COMMISSION,  
408 E. 34th Street,  
NEW YORK.

**Helpful Reminders.**

Perhaps the most important item for consideration at this season is replies to customers' questions, which are almost always prompted by unsatisfactory experiences they are having. As a grower you have done your part when the stock is prepared in good condition and on time, but we must give directions cheerfully and correctly. I shall attempt to state briefly two questions that are put daily and formulate replies that your clerks may easily repeat to customers, choosing their own words to convey the idea.

A universal question is: "What must I do to have a clematis live?" The one you sold me a year ago, grew nicely for a few days, then died suddenly." In answering you may say in substance: To explain all the causes that defeat the healthy growth of clematis would fill a large book, but by giving you a few pointers, most essential to their welfare you will be able to steer clear of further difficulty. The clematis, like many other plants, requires a subsoil that will absorb considerable water and give out vapor that continually rises to the many spreading roots above; this is always most satisfactory when it is largely clay. The reason so many clematis die is that they are planted close to buildings where the subsoil is brick-bats, plaster, shavings, etc., that hold no water, but absorb heat. Dig a hole three feet deep, fill it with turf and some manure, put in a pipe at the end so that when the trench is filled you can pour water in at the base and have it soak up, instead of down. Before filling the hole, be sure the ground is well moistened. Always keep the surface dry. In this way they will root deep and be less subject to drought in hot weather. The same treatment is advisable for hardy roses.

Another oft encountered query is: "What is the reason my lilacs and peonies do not bloom?" When we investigate we find that the plants which worry our customers are at a dry corner of the house or on some hard ground on which they are unable to continue a sturdy growth during June and July. Explain that their flowering one season depends on their growth the season previous. To secure a healthy growth now, bore two or three holes at the base of each plant, pour in water until they are soaked. Repeat the operation frequently and add fertilizers, fill up the hole lightly. In July continue the process. You will be rewarded next year by an abundance of bloom.

For next season's planting sow admunia and oriental poppy seed, also provide as many ivy geraniums as you will need and grow them on. You require 5-inch pot plants with vines two feet long in bloom to make money and you cannot have them unless you get them going now in 3-inch pots. It pays to look ahead.

C. B. W.

WILMINGTON, DEL.—Edward Tattall, an octogenarian, died June 3. He was in the nursery business for many years and was superintendent of city parks. He leaves a widow.

**Asparagus Plumosus Nanus.**

Strings 8 to 10 feet long.

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

**Bassett & Washburn**

88 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

**N. Y. CUT FLOWER EXCHANGE**

404-412 E. 34th St. Near Ferry.  
Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

**Wholesale Flower Markets**

CINCINNATI, June 9.

Roses, Beauties, select.....	15 00@20 00
" " medium.....	10 00@12 50
" Brides, Bridesmaids.....	2 00@ 3 00
" Perles.....	3 00@ 4 00
" Meteors.....	2 00@ 3 00
Carnations.....	50¢@ 1 00
" fancy.....	1 50
Marguerites Sweet peas.....	25
Lily of the valley.....	3 00
Callas.....	8 00
Stocks.....	2 00
Smilax.....	20 00@12 50
Adiantum.....	1 00
Asparagus.....	50 00

ST. LOUIS, June 9

Roses, Beauties.....	2 00@20 00
" Meteors.....	1 00@ 6 00
" Brides, Bridesmaids.....	1 00@ 6 00
" Perles.....	1 00@ 6 00
" Kalsertins.....	1 00@ 6 00
" Jacqs.....	1 00@ 1 50
Carnations.....	50¢@ 2 00
Violets, California.....	35
" double.....	35
Lily of the valley.....	2 00@ 3 00
Harrill.....	6 00@10 00
Callas.....	5 00@ 6 00
Smilax.....	15 00@20 00

MILWAUKEE, June 9.

Roses, Beauties.....	5 00@20 00
" Brides, Bridesmaids.....	2 00@ 4 00
" Perles.....	1 00@ 3 00
" Meteors.....	2 00@ 4 00
Carnations.....	75¢@ 1 50
Lily of the Valley.....	2 00@ 3 00
Peonies.....	2 00@ 4 00
Marguerites, yellow.....	25¢@ 75
Smilax.....	12 50@15 00
Adiantum.....	50¢@ 1 00
Asparagus.....	50 00

BUFFALO, June 9

Roses, Beauties.....	10 00@10 00
" Brides, Bridesmaids.....	3 00@ 6 00
" Meteors.....	3 00@ 6 00
" Perles Niphotos.....	2 00@ 4 00
" Kalsertins.....	3 00@ 6 00
Carnations, white and colored.....	1 00@ 2 00
" fancies.....	2 00@ 2 50
Lily of the valley.....	4 00
Harrill.....	6 00@10 00
Sweet peas.....	35¢@ 50
Smilax.....	12 50@15 00
Adiantum.....	1 00@ 1 25
Asparagus.....	50 00@75 00

LOUISVILLE, June 9.

Roses, Beauties per dozen.....	1 00@2 00
" Brides, Bridesmaids.....	3 00@ 4 00
" Meteors.....	3 00@ 4 00
" Kalsertins.....	4 00@ 5 00
" Perles.....	2 00@ 3 00
Carnations, fancy.....	2 00@ 3 00
" common.....	1 00@ 2 00
Lily of the Valley.....	25¢@ 50
Callas, per dozen.....	75¢@ 1 00
Sweet peas.....	20¢@ 50
Marguerites.....	75
Smilax per dozen.....	1 25@ 2 00
Adiantum.....	50
Asparagus, per string.....	60

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The success in heating the dwelling from the greenhouse boiler will depend largely upon the relative height of the water in the boiler and the lowest point in the main to the dwelling. If the pipe is one and one-half to two feet above the water level, the steam can be carried under the drive way, but with less than this there is likely to be trouble, and three or four feet will be desirable. If the above condition can be secured after dropping the pipe to the point where it is to run beneath the driveway, carry it with a slight fall until it has entered the dwelling, then take off the risers and connect the lowest part of the main with the return from the dwelling, by means of a small relief pipe. This will drain off the condensed water from this part of the main and prevent its pocketing. After the pipe has been wrapped in asbestos, or other non-conducting packing, it can be enclosed in sewer pipe, with a diameter three or four inches greater than that of the wrapped pipe. This will be found a cheap and durable method of insulating the pipe, and but little heat will be lost. L. R. TAFT.

MAQUOKETA, IOWA.—Mrs. John Odgers has purchased the Blake greenhouse.

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by the same author, treats of the forcing of flowers, fruits and vegetables under glass; also the propagation and care of house plants; insects, diseases and remedies. 400 pages. Just out.

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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.  
 IRVING ROUSE, Pres.; E. ALBERTSON, Vice-Pres.;  
 GEORGE C. SEAGER, Rochester, N. Y., sec'y and Treas.

A. L. BROOK has added thirty-five acres to his nursery at North Topeka, Kan.

NEW BRIGHTON, PA.—Thomas Edwards will retire from business on July 1 in favor of his son.

The Allen Nursery Co., of Rochester, N. Y., has reduced the number of its directors from five to three and increased its capital stock from \$6,000 to \$17,000.

CORNELIUS S. COLE, aged 82, died at Spencerport, N. Y., May 27. He was engaged in the nursery business for more than thirty years. A widow and one son, George M., survive him.

THE Board of Control of Toronto has given Leslie & Son the contract for the trees for Island park at the following prices: 200 Lombardy poplars, 15 cents each; 200 Balsam poplars, 20 cents each; 1,000 assorted willows, 15 cents each; 250 Manitoba maples, 20 cents each; 500 Scotch elms, 25 cents each; 250 European ash, 25 cents each.

THE NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION, in session at Omaha, June 8, elected the following officers: President, N. H. Albaugh, Tadmor, O.; vice-president, W. C. Barry, Rochester, N. Y.; secretary-treasurer, G. C. Seager, Rochester, N. Y.; executive committee, Irving Rouse, Rochester; E. Albertson, Bridgeport, Ind.; F. H. Stannard, Ottawa, Kan.

ROCHESTER, N. Y.—William G. Watson died June 3, aged 69 years, leaving a wife, three sons and four daughters. He was manager for the firm of Ellwanger & Barry, nurserymen, with whom he had been associated for forty-three years. Mr. Watson was born in Belfast, Ireland, but had made his home in Rochester since 1853. He was a man of exemplary character and wide acquaintance.

THE WESTERN ASSOCIATION OF WHOLESALE NURSERYMEN, in session at Omaha, June 8, elected the following officers: President, C. L. Watrous, Des Moines, Ia.; vice-president, Samuel Lorton, Davenport, Ia.; secretary, Thos. B. Meehan, Philadelphia; treasurer, W. J. Peters, Troy, O. Reports showed a decrease of matured stock of about 500,000 apple trees and 250,000 cherry plants. It shows an increase this spring of over 2,000,000 apple grafts and about 16,000 cherry stalks for budding. The total plant of apple grafts this season approximates 7,000,000.

American Association of Nurserymen.

The twenty-third annual convention of the American Association of Nurserymen was in session at Omaha on June 8 and 9. About 150 members participated in the business and pleasures of the meeting.

The address of the president, Irving Rouse, of Rochester, N. Y., outlined the action of the body as his suggestions were closely followed. He said in part:

"Without the aid of this association the nursery schedule in the Dingley tariff act, of which we are expecting so much, would never have been enacted. The federal law, or San Jose scale act, now before congress, and which we hope will shortly become a law, was only accomplished by the united efforts of this association.

On March 18 the Dominion houses of

parliament passed what is known as the Canadian exclusion act. This act bars out of Canada all nursery stock. It is estimated that at least \$500,000 worth of nursery stock had been sold from the state of New York alone in Canada, a great portion of it at retail on which commissions had already been paid, and not a dollars worth of which could be shipped. A protest was at once lodged at Washington, but the governor-general of Canada refused to suspend all or any part of the law, not even excepting the stock already covered by previous contract.

"In view of this state of affairs it seems very desirable that this association take some action looking to a rescinding of this law or to retaliation; if the former cannot be accomplished, under the federal scale act the secretary of agriculture would have the power to bar Canadian fruit out of the United States for the same reason that Canadians bar our trees, and with more justice. I would suggest that this whole matter be thoroughly discussed and placed in the hands of our legislative committee."

The San Jose scale and legislation against the pest received much attention and the legislative committee was instructed to use every endeavor to secure the passage of the pending Barlow bill.

The following officers were elected: President, A. L. Brooke, Topeka, Kan.; vice-president, E. Albertson, Bridgeport, Ind.; secretary, George E. Seager, Rochester, N. Y.; treasurer, Charles H. Yates, Rochester, N. Y.; executive committee, C. L. Watrous, Des Moines, Ia.; R. C. Berkman, Augusta, Ga.; F. H. Stannard, Ottawa, Kan.

The association voted to meet in Chicago in June, 1899.

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  - 20,000 Compacta, Globe and other dwarf Arbor Vitas, all sizes.
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  - 2,000 European Silver Fir, 2 to 4 feet.
  - 5,000 Hemlock Spruce, 1 to 4 feet.
  - 10,000 Norway Spruce, 3 to 8 feet.
  - 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
  - 5,000 Irish Junipers, 1 to 2 1/2 feet.
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  - 1,000 Eonymous Japonica, 18 to 36 inches.
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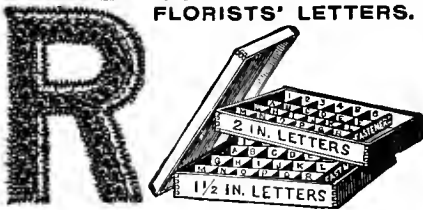
HOT, DRY WEATHER AFFECTS STOCK.— FUNERAL WORK THE ONLY BUSINESS OF THE WEEK.—NOTES.

The weather has been intensely hot and correspondingly dry and all field grown flowers are beginning to suffer. The sweet pea crop, particularly, will be cut off unless there is a rain very soon.

With the summer heat has come the summer inactivity in floral circles and had it not been for funeral work, the past week would have touched the limit of summer dullness. The death of the wife of a prominent railroad official caused an unusual demand for handsome floral tokens. The pall was of American Beauty roses, and one of the most pleasing designs was a shaft four feet high, made of white flowers, entwined with a garland of Meteor roses. M. C. DORRIS.

Boston Florist Letter Co.

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Crowl Fern Co.

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THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Pres.; E. B. CLARK, 1st Vice Pres.; S. F. WILLARD, Wethersfield, Conn., Secy and Treas.

MR. WARNER, of Van Heemstra & Co., sailed for Europe June 4 on the steamship Spaarndam.

AUG. RHOTERT, of New York, sails for Europe about June 20, returning September 1. Mrs. Rhotert will accompany him.

PRESIDENT RICE predicts a good time at Old Point Comfort during the coming meeting of the Seed Trade Association. His party will go via Old Dominion line from New York, 4 p. m., Saturday, June 11. Sessions open Tuesday, a. m., June 14.

VISITED CHICAGO: August Rhotert, New York; R. C. Stoehr, of the Dayton Label Co., Dayton, Ohio; Henry A. Salzer, La Crosse, Wis., and R. H. Shumway, Rockford, Ill. Messrs. Salzer and Shumway summarized the business of 1898 as exceeding that of last year by about 10%. The latter gentleman is already purchasing printing material to begin work on his 1899 catalogue.

Indianapolis.

SPRING TRADE RATHER DULL.—MEMORIAL DAY ENTERPRISE.—FLORISTS' CLUB MATTERS.—ROTHERMEL'S TRIMBLE.

Spring trade in general and especially for Memorial Day did not come up to expectations. A few florists report business equal to last year, but with most of us there were fewer sales and lower prices. Memorial Day brought a very unpleasant surprise to those in the trade whose places are close to Crown Hill cemetery, as some florists from other parts of the city were stationed with their wagons on the street leading to the cemetery and were disposing of large quantities of flowers there. The influence of these street sales was heavily felt by those doing business in that neighborhood for they were prepared for the usual amount of business and some of them had a large amount of surplus stock on hand.

The police have at last been successful in capturing some of the flower thieves. So much flower stealing has been going on in the south side of the city, that the florists in this locality declare the evil has affected their business.

The mid-summer meeting of the State Florists' Association will be held at Richmond on July 2. The attendance from this city is expected to be very large as the Indianapolis boys well remember the hospitality which they have enjoyed at Richmond on former occasions.

The influence of the hot weather was felt at last night's meeting of the Florists' Club. Besides appointing a committee to make preparations for the annual picnic, little business was transacted.

H. C. Rothmel, of the city greenhouse force was injured while riding his wheel, he tried to light off a dog and ran against a bridge. The dog and bridge escaped unhurt, but Mr. Rothmel will be laid up for several days.

Pittsburg.

BLOOMS ARE PLENTY BUT BUYERS ARE SCARCE.—PLANS A TRIP TO OMAHA.—LUDWIG'S PRONIES.—NEWS NOTES.

The several days of hot summer weather which we have been experiencing have hurt business. Flowers were extremely

plentiful, but buyers were scarce, and several of the florists sent large quantities to the hospitals rather than send them to the dump. Roses were retailed at from 50 cents to \$1.50 per dozen, and carnations at 25 cents to 35 cents per dozen. In the plant department a fair business was done, but it will be about over in another week. Those in this branch of the trade are well satisfied with the season's work, as prices have been high enough for a profit.

Several of the local florists are agitating a plan for the society to go in a body to the S. A. F. convention at Omaha. It is expected that from twenty-five to thirty will go from here.

E. C. Ludwig, of Allegheny market, has had several very handsome varieties of peonies of his own raising on display this week. He contemplates giving a peony exhibition next year, and as he has over 1,500 plants and many varieties it would prove very interesting.

T. P. Langhans will go to Somerset county with his family about the end of the month to rusticate during July and August. He will not attend the convention at Omaha.

Julius Ludwig and wife leave in a few days for New York and the seashore.

REGIA.

LINCOLN, ILLS.—Chas. Woodruff, head gardener at the state home for feeble-minded children, was drowned in Salt Creek June 4, while rescuing an inmate of the institution.

BALTIMORE, MD.—Merryman & Pattison, auctioneers have conducted some very successful plant sales this spring although very few florists have been among the bidders.

LEBANON, IND.—Gustave H. Minx, who bought the Lebanon greenhouses of H. L. Moore, assignee for W. A. Bilger, declined to retain his purchase, claiming that it was not what he expected to get, and Mr. Moore once more offers the establishment for sale. Mr. Minx has returned to his old position as gardener at the Northern Indiana Hospital for the Insane.

CANTON, OHIO.—Burglars blew open the safe in Charles Brown's greenhouse office at about 3 o'clock on Tuesday morning. The explosion aroused so many persons that the robbers were obliged to run, leaving most of the valuables behind them. They, however, secured a gold dollar which Mr. Brown prized as a keepsake, as it was given him some years ago by Mrs. William McKinley.

NOTICE.

Mr. Charles P. Braslan's connection with us ceased with the close of business May 31st. We beg to inform the trade generally that we have no connection with Mr. Braslan or the Braslan Seed Growers Co. and are not responsible for any of his or its acts.

Orders requiring prompt attention should be addressed to Mr. A. J. M. Jener our Manager in Chicago at 12 North Clark Street. All other letters pertaining to our past or present business in Chicago and all remittances should be made to the above office.

JOSEPH BRICK & SONS (Inc.) Per Charles H. Brock Treas. Boston June 1st 1898.

CHINESE PRIMROSE

Greatly improved and well known to be of the very best growth. Packets put up especially for Florists, of one single and double variety 100 seeds, \$1.00. Plants ready in August, at \$2.50 per 100.

Cineraria seed of large flowering dwarf varieties: Cineraria mixtura, pkt. 25c, 6 pkts. \$1.00. Primula obconica, pkt. 100 seeds 25c. Primula floribunda, fine yellow pkt. 25c.

JOHN F. RUPP, Shiremanstown, Pa.



**RAFFIA** BEST QUALITY, LONG MADAGASCAR. Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at 9c 50 lbs. or over at 10c 25 lbs. or over at 11c 10 lbs. or over at 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut Streets, Philadelphia, Pa.

G. C. Watson, Seedsman.

Seed Stores and Flower Stores.

can profitably handle our ODORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed.....

We furnish Pure Bone Meal for florists use. Guaranteed analysis: Ammonia..... 5 per cent. Bone Phos..... 55 per cent. Write for sample and prices. ....

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Clifton Springs, N. Y.

BURPEE'S SEEDS PHILADELPHIA.

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SEEDS LAWN GRASS \$12.00 per 100 lbs.

Finest Quality Ever Offered (Retail at 30c. lb.)

J. CHAS. McCULLOUGH, SEEDSMAN,

RECLEANER AND JOBBER GRASS SEEDS.

North-East Corner Second & Walnut Sts., Cincinnati, O.

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CASES of 2500 paps, extra quality, \$25.00; per 1000 \$12.00

CASES of 3000 paps, good quality, \$25.00; per 1000 \$10.00

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FLOWER SEEDS FOR FLORISTS

Catalogues on application.

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UNITED STATES AND CANADA AR-  
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**ALPHABETICALLY**

PRICE TWO DOLLARS.  
IN FLEXIBLE LEATHER BINDING, THREE DOLLARS.



American Florist Company,

324 DEARBORN STREET,  
CHICAGO, ILL., U. S. A.

Syracuse, N. Y.

SPRING TRADE HAS BEEN FAIR.—FRENCH CANNAS IN SLIGHT DEMAND.—RED GERANIUMS IN FAVOR.—HYBRID ROSES THE FAVORITES.

Spring trade has been fully up to that of last year but planting out was greatly retarded by bad weather, causing a great rush just before Memorial Day.

Contrary to expectations French cannas, which had sold so well in previous seasons, have been in slight demand. This is attributed to the fact that buyers who planted largely of them have learned to hold them over in their own cellars. Red geraniums, especially the varieties S. A. Nutt and Grant, have been more largely planted than ever and about the only scarce article on the market has been good vincas. The best selling plants have been hybrid roses in pots. More than double the usual quantity was grown this year and sold out at from 50 cents to \$1 each.

Memorial Day's trade was about 10% larger than that of last year, more small plants being sold for this occasion. The supply of coarse flowers was far from being equal to the demand but roses and carnations were plentiful and of extra fine quality. Herbaceous pyrethrums were out just right and it seems strange that more of these valuable plants are not grown for cutting. ALPHA.

NORTH TOPEKA, KANS.—Peters & Skinner have presented the fire department with fifty rose plants which have been set out about the fire station.

**PALMS and FERNS**  
 The Largest Stock of PLANTS IN THE WEST  
  
**GEO. Wittbold**  
 1708 N. HALSTED ST.  
**CHICAGO**

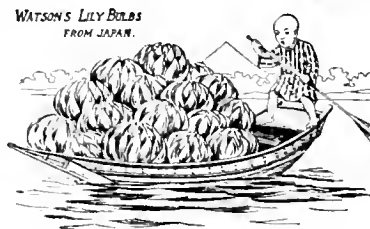
**CYCAS REVOLUTA.** The true, long-leaved variety. Freshly imported, dormant stems. Run from 6 to 9 inches in length and weigh from 5 to 10 lbs. each. Note the price: 100, per lb., \$8 per 100 lbs., \$75 per 1000 lbs. 500 lbs. at 100 rate. Special price on larger quantities.  
**UNITED STATES EXOTIC NURSERIES**  
 (Formerly Pitcher & Manda.) SH RT HILLS, N. J.  
 Wholesale Catalogue Palms & Ferns on application.  
 Mention American Florist.

**Bougainvilleas**  
 Glabra & Glabra Sanderiana are free & continuous bloomers for 4 to 6 months from Jan to July. The bracts bloom are extremely durable on plants or in cut sprays. A small box of plants will form a profitable investment for any florist for decorative material. We will 7 plants for \$1.00. Per doz. Per 100  
 strong plants from 2 1/2 in. pots \$1.50 \$10.00  
 4 in. 2.50 20.00  
 Extra long plants from 4 in. pots 3.00 30.00  
 Cash with order **THEO. S. BECKETT,**  
 Clenfield, Pa., 7 miles below Pittsburg

**Now Ready**

THE American Florist Company's DIRECTORY of Florists, Nurserymen and seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price \$2.00 in flexible leather binding. \$3.00

American Florist Company,  
 324 Dearborn St., Chicago, Ill., U. S. A.

**WATSON'S LILY BULBS FROM JAPAN.**  
  
 I have 3 sizes Japan Longiflorum—5 to 7, 7 to 9, and 9 to 10 inches, but as the large size is in short supply, I can book same only when some of the other two are taken, and I advise early orders, as there is a run on the Japan Stock this year. Delivery September 25th to October 15th, 1898. Prices guaranteed. I will be pleased to have a list of your wants in this item; also in **Harrisii, Romans, Paper Whites, Dutch Bulbs, Valley, etc.** Let me hear from you. All orders, large or small, receive the same careful attention. Address all communications to Juniper and Walnut Sts., Philadelphia, Pa.  
**G. C. Watson.**

**Crotons... IN VARIETY**  
 Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Linenta, Andreanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each.  
 Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$6 per 100.  
**Edwin Lonsdale,**  
 Florist,  
 CHESTNUT HILL, PHILA., PA.  
 Money Order Office,  
 Station H, Phila.

**FINE PALMS**  
**ARECA LUTESCENS**  
 3 plants, 5-in. pot, 18 to 20-in. high, per 100, \$10.00  
 3 plants, 10-in. pot, 18 to 50-in. high, each, 1.00  
 1 plant, 2-in. pot, 8 to 12-in. high, per 100, 5.00  
**COCOS WEDDELIANA**  
 1 plant, 4-in. pot, 15 to 18-in. high, each, .50  
 1 plant, 5-in. pot, 21-in. high, each, .75  
 1 plant, 5-in. pot, 30-in. high, each, 1.00  
**KENTIA BELMOREANA**  
 2 1/2-in., 3 leaves, 10 to 12-in. high, per 100, \$20.00  
 3 in., 4 or 5 leaves, 15 to 18-in. high, per 100, 25.00  
 5-in., 4 to 6 leaves, 20 to 24-in. high, each, 1.00  
 All measurements from top of pot.  
**JOSEPH HEACOCK, WYNCOTE, PHILA., PA.**  
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**The Finest Winter Flowering Plant of the Century**  
**Begonia Gloire de Lorraine**  
 THIS fine variety keeps up a succession of bright rosy pink blossoms throughout the Winter, and is invaluable for florists' work. H. B. May, who was the first to bring this striking novelty into popularity holds the finest stock in the world. Orders for export carefully packed.  
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 LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Acazacias, Pandanus, etc.  
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 New York Office, 409 Fifth Ave.

**PALM Seed. FRESH ON HAND**  

	per 100	1000	3000
LATANIA BORBONICA	\$.50	\$3.00	\$7.50
ARECA LUTESCENS	1.00	7.50	20.00
ASPARAGUS PLUMOSUS			
NANUS	1.50	12.50	35.00
PHOENIX RUPICOLA	1.00	7.50	20.00
RECLINATA	1.00	7.50	20.00

**J. L. SCHILLER,**  
 404 East 34th Street, NEW YORK CITY.

**Good Stock! Low Prices!**  
**CANNAS** Strong plants of Alphonse Bourvier, Chas. Henderson, Egandale, Paul Marquand, Wm. Elliott Bisson, Sec. Stewart, Flamboyant, \$4.00 per 100; \$35.00 per 1000.  
**COLEUS** Crimson Verschaffeltii, Golden Queen and Golden Bedder, \$2.00 per 100; \$18.00 per 1000.  
**Geraniums** Double Gen. Grant and S. A. Nutt, 2 1/2-inch pots, \$3.00 per 100; \$28.00 per 1000; extra good, 4-inch pots, \$7.00 per 100; \$65.00 per 1000.  
**Cobaea Scandens**, 4-inch pots, \$6.00 per 100.  
**JOHN SCOTT,**  
 KEAP STREET GREENHOUSES,  
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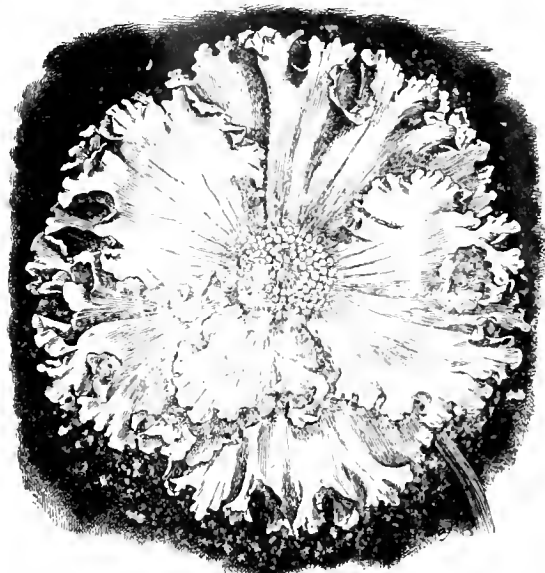
**Orchids..**  
 We have still on hand a limited quantity of following importation: Cattleya labiate, C. Mossie, C. Lelia purpurata and Miltonia Candida.  
**LAGER & HURRELL, - Summit, N. J.**  
**Asparagus Sprengerii**  
 \$5.00 per 100  
 Cash with order. **Seedlings**  
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# New Frilled, Tuberos Rooted... BEGONIA

We can still supply a limited stock of the most unique form, with very large single flowers which are entirely distinct from anything heretofore offered, the petals being wavy and beautifully frilled on the edges, similar to the newer forms of Petunias. The illustration gives a very good idea of its general appearance. A decided acquisition and created a sensation at the European exhibitions last year. Strong bulbs, 30c each; \$3 per 100.

We are now booking orders for our SUPERB STRAINS of Calceolaria, Cineraria, Cyclamen, Pansy, Primula, etc., etc. New Crops will be here shortly—for varieties and prices see our current wholesale catalogue.



**HENRY A. DREER,** 714 Chestnut Street,  
PHILADELPHIA, PA.

## Latania Borbonica

Extra fine stock, 3-inch pots, one character leaf, \$10 per 100. 4-inch, two character leaves, \$12.50 per 100.

## Sago Palms

With fine leaves, \$4.00, \$5.00 & \$6.00 per dozen; perfect plants that will be quick sellers. All sizes in Sagos from 35c each to large specimens. Write for prices.

## Coleus

A few thousand very strong Rooted Cuttings, Golden Bedder and Nellie Grant, \$4.00 per 1000 to clear out.

## LEMON VERBENAS.

Strong plants, 4-inch pots, \$5.00 per 100. 5-inch pots, \$6.00 per 100.

Cash with order please.

### CRITCHELL'S,

B. C. CRITCHELL, Mgr.

110 East 4th Street, CINCINNATI, O.

## Asparagus P. Nanus (true)

JUST THE THING FOR FERN DISHES.

10,000 Plants. Per hundred, \$2.50, or \$20.00 per thousand.

Cash with order from parties unknown to me.

**LOUIS ULLRICH, Tiffin, Ohio.**

Wholesale Grower of Cut Flowers.

## Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.

**RUDOLPH VAN TIL & CO.,**  
Hillegom, Holland.

American Representative

**L. C. BOBBINK, Ruiterhofd, N. J.**

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# BULBS For FLORISTS., For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, HOLLAND.

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# Auction Sale! Wednesday, June 15, 1898

At 11 o'clock A. M.

—ON THE PREMISES OF—

**F. H. DRESSEL, Weehawken Heights, N. J.**

### ORCHIDS

500 *Cattleya Trianae*—various sizes.  
300 *Cattleya Percivaliana*—various sizes.  
200 *Cattleya Labiata*—various sizes.  
All in fine order, among them being many fine specimen plants, also a collection of *Dendrobiums*, *Cymbidiums* and *Oncidiums*; also

### PALMS, DRACAENAS, NEPHROLEPIS, ETC., ETC.

500 *Cocos Weddeliana*—2-inch.  
500 *Kentias*—2-inch.  
100 *Dracaena Sanderiana*—3-inch.

500 *Dracaenas* in fine varieties for growing on, such as *Massangeana*, *Terminalis*, *Lindenii*, *Fragrans*, *Amabilis*, &c.  
500 *Asparagus P. Nana*—2 to 5-inch pots.  
100 *Araucaria Excelsa*—5-inch pots.  
500 *Nephrolepis Bostoniensis*—5-inch pots to 16-inch pans, fine plants.  
200 **NEPH. CORDATA COMPACTA**—6 to 10-inch pans.  
500 *Pandanus Utilis*—3-inch pots.  
100 *Kentia Belmoreana*—2½ to 3 feet high.  
100 *Dracaena Gracilis*—3 to 4-inch pots.  
500 *Areca Lutescens*—fine bushy stock, 3, 4 and 5 in a pot, 4 to 5-inch.  
100 *Ficus Elastica*—5 to 6-inch pots.  
50 *Ficus Elastica*—3 feet high.  
100 *Funkias* and many others.

FOR SPECIAL CATALOGUE SEND TO

**CLEARY & CO., Auctioneers 60 Vesey St., N. Y.**

NOTE THE DATE: WEDNESDAY, JUNE 15.

## Good Stock to Fill Benches Now.

**JOHN H. LEY,** Good Hope,  
Washington, D. C.

All clean, well-grown plants to shift on at once.  
*Areca Lutescens*, 4 inch pots, 2 ft. thick \$3.00 doz.  
*Oreodoxa Regia*, 5 in., 3 in a pot, 4 feet, 3.00 " "  
(Royal Palm, very elegant.)

*Latania Borbonica*, 4 in. thick, 2.00 " "  
*Pandanus Utilis*, 4 in. thick, 2.00 " "  
*Adiantum Regium*, 6 in., fine for cutting, 5.00 " "  
" *Rhodophyllum*, 6 in., 5.00 " "  
*Nephrolepis D. furcens*, 5 in., ex. strong, 3.00 " "  
*Rose Mure*, Planter, 5 in., extra strong, 1.50 " "  
Crotons, 6 finest sorts, top cuttings, 2-in., \$1.00.  
100 Ferns from flats, 8 sorts, mailed, for \$1.25; \$10 per 1000. 100 *Citrus Odoratensis*, rooted cuttings, mailed, for \$1.25.  
Well packed. Cash with order. Plants extra.

### Azaleas THE FINEST STOCK IN THE WORLD

**Palms SANDER,**

**Bay Trees BRUGES, BELGIUM.**

AGENT:

**A. DIMMOCK,**

60 Vesey St., NEW YORK.

## Asparagus Sprengeri

50,000 Plants in 2½-inch pots,  
\$5.00 per 100, express; 24 for \$1.50 by mail. Specimens for 8-inch pots, \$6.00 to \$12.00....

**A. Blanc & Co.**  
PHILADELPHIA.

## Dracaena indivisa

5-inch pots, extra fine plants.

Per 100 \$18.00.

Cash with the order.

MORITZ TITTEL, Jefferson Park, Chicago.

**Treatment of Cyclamen Bulbs.**

ED. AM. FLORIST:—Does it pay to bother with keeping cyclamen bulbs over to the second year, especially the small ones? I had some left over and have a lot of seedlings again this year. Would like to have the opinion of some grower as to the best course to pursue with the old bulbs.

SUBSCRIBER.

**FROM THE COMMERCIAL STANDPOINT.**

We do not consider it worth while bothering with old bulbs. If special care is taken good results may be obtained, but I have never found it to pay, as if seed is sown at the proper time and the plants skilfully handled, the young plants will be as a rule far superior to old stock. However, good specimens may be grown from the old bulbs if the inquirer will dry them off gradually, leaving them in the pots and withholding water by degrees until quite dormant, then take the plants—pots and all—to some cool, shady place outdoors, cover them to the depth of about two inches with coarse sand and leave them there for four to six weeks; then take the old bulbs, shake out the soil and re-pot. They should next be placed in a frame, watered sparingly at first and afterward cultivated the same as young stock. This is the old way of thirty or forty years ago, and it is good enough, only that it spreads over two years that which can be accomplished in one.

J. M. KELLER.

Brooklyn, N. Y.

**AN EXHIBITION GROWERS' ADVICE.**

It does not pay to bother the second year with cyclamen bulbs that have been starved or neglected the first season; but if they have not received a check while growing the first year, they will start and make fine plants the second, and produce twice as many flowers as seedlings. They will probably require a larger size of pot than that used for seedlings at the final potting. To get the best result from cyclamen bulbs the second year they must be dried off gradually and ripened until they lose all the old leaves. It will not do to neglect them while they are undergoing the drying-off process; give them a good sunny bench with sufficient water to keep the roots alive and prevent the bulbs from shriveling. About the middle of June it will be time to re-pot them; shake them out of the old soil, being careful to save all the roots that are alive, and transfer to pots two sizes smaller than those in which the plants were previously flowered. They like a good, fibrous mixture to grow in, one-half good soil broken up and one-half loam, with a fair allowance of well-rotted cow manure, charcoal and bone flour. The pots should be well drained, as one of the main points in the successful culture of these plants is to preserve the soil in a sweet condition. They will not require much water until they start to make a good growth, but a light syringing night and morning helps them to break away. Shade during the hottest part of the day, and pot on all the plants as they require it. They should be grown in a frame during the summer months, placing them near the glass and throwing the lights off mornings and evenings.

JOHN BARR.

Natick, Mass.

WILMINGTON, DEL.—The Clinton Floral Company advertised its ornamental iron vases in one issue of a local weekly and in two days had received thirty-two replies. And yet some people think that advertising does not pay.

**YOUNG ROSES PLANTS**

**ALL STOCK SENT OUT IS FIRST-CLASS IN EVERY RESPECT.**

From 2 1/2-inch Pots.	Per 100	Per 1000
AMERICAN BEAUTIES.....	\$5.00	\$40.00
BRIDES.....	3.00	25.00
BRIDESMAID.....	3.00	25.00
METEOR.....	3.00	25.00
KAISERIN.....	3.00	25.00
PERLE.....	3.00	25.00

**TERMS CASH WITH ORDER.**

**J. A. BUDLONG,** 37-39 Randolph Street, CHICAGO, ILL.

**40,000 FIRST QUALITY FORCING ROSES, READY FOR IMMEDIATE PLANTING.**

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON	LA FRANCE	AMERICAN BEAUTY	PRESIDENT CARNOT
METEOR	KAISERIN	SUNSET	BON SILENE
PERLE	GONTIER	MME. HOSE	NIPHEOS
BRIDESMAID	BELLE SIEBRECHT.	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 100.

**J. L. DILLON, Bloomsburg, Pa.**

**ROSES OWN ROOTS, DORMANT, FIELD GROWN**

**IN COLD STORAGE IN CHICAGO.**

No. 1, 2 to 4 feet, cut back to 2 feet  
 Yellow Rambler (Aglaia) Hybrid Perpetuals,  
 Mosses, Hardy Climbers and Madam Plantier

These plants are very strong and well shaped. Prices on application. Address

**W. F. HEIKES, Manager,**

1308-1310 Unity Bldg., - CHICAGO, ILLS.

**Rose Plants...**

Fine Bride, Bridesmaid, Perle, Sunset and Meteor.

2 1/2-inch Rose pots.....	\$3.00 per 100.
3-inch pots, standard.....	5.00 per 100.

**W. J. & M. S. Vesey,** FORT WAYNE, IND.

**AMERICAN BEAUTY**  
 Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100; \$70.00 per 1000.  
**EDWIN LONSDALE,**  
 Wyndmoor, Chestnut Hill,  
 Cash with order. PHILADELPHIA, PA.  
 Money Order Office, Station H, Phila

**ROSES HANDY FOR WESTERN GROWERS**

Beauties, Brides, Maids, Meteors, Woottons and Perles, 2 1/2, 3 and 4-in. Strong, clean, healthy stock, cheap for cash, to clean up. If you want good stuff at prices to suit write us for prices at once. Address...

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**YOUNG ROSES, STRONG STOCK.**

5,000 MAIDS.....	2 1/2-in. Pots, \$30.00 per 1000.
5,000 BRIDES.....	
10,000 METEORS.....	

Also one second-hand No. 16 Hitchings Hot Water Boiler. Apply to

**THE FLORAL EXCHANGE,** 614 Chestnut Street, PHILA.

**Now Ready!** the American Florist Company's..

**DIRECTORY** Of Florists, Nurserymen & Seedsmen of the United States and Canada. Price Two Dollars. In Flexible Leather Binding, Three Dollars.....

**AMERICAN FLORIST COMPANY,** 321 Dearborn St., CHICAGO, III.

**Mrs. Robt. Garrett**  
 NEW PINK FORCING ROSE  
 Winner of 6 certificates, medal and silver cup. \$3.50 per doz., \$25.00 per 100. A fine stock of young chrysanthemums and carnations. Send for trade list describing above in detail.  
**H. WEBER & SONS, Oakland, Md.**

**H. P. ROSES**

FROM 2 1-2 INCH POTS.

Strong, thrifty, well established plants. General price \$4.00 per 100. Extra fine lot of Crimson Ramblers.

**Jackson & Perkins Co.** NEWARK, NEW YORK.

**ROSES..**

	2-in. per 100	3-in. per 100
Am. Beauties..	\$5.00	\$5.00
Perle.....	\$2.75	4.50
Bridesmaid...	2.75	4.50

**MAPLEWOOD CUT FLOWER and PLANT CO.** PLEASANT HILL, MO.

**Memorial Rose**

(Rosa Wichuriana)

Strong field-grown plants, \$50, \$75 and \$100 per 1000

**SAM'L C. MOON,** MORRISVILLE, Bucks Co., PA.

**FORCING ROSES.**

	Per 100
BRIDE.....	2 1/2-in. 3 1/2-in. \$2.50 \$4.00
BRIDESMAID.....	2.50 4.00
METEOR.....	2.50 4.00

White, Pink and Yellow Ramblers, same price. Moonyines \$25.00; Alstromerthas \$18.00 per 1000.

**THE NATIONAL PLANT CO., Dayton, O.**

**Do You Need Young Rose Stock**

for planting out of 3-in. pots? A dollar more on the hundred is nothing if you get better stock. Send 50c or \$1.00 in stamps for samples of what you want to

**GEO. A. KUHL,** Mention this paper ....PEKIN, ILL.

# Grafted Roses

but strong vigorous stock, American Beauty, 3-inch @ \$10.00 per 100; \$80.00 per 1000. **Bride, Bridesmaid, President Carnot, Kaiserin, Meteor, La France, Perle, Mrs. P. Morgan, Wootton:** These are extra large plants in perfect condition from 3-inch pots @ \$8.00 per 100. If you want a large lot, write us for special price and samples. ❀ ❀ ❀ ❀

American Beauty, Carnot, and Testout from 4-inch pots, in extra fine shape @ \$15.00 per 100.

Bridesmaid, extra fine, 3-inch pots @ \$15 per 100; \$125.00 per 1000.

Also the following varieties, not grafted.

## ASPARAGUS SPRENGERII

From 2-inch pots, \$5.00 per 100; \$45.00 per 1000. This is extra fine stock. Strong 3-inch plants @ 10.00 per 100; \$85.00 per 1000. Write for special prices on large quantities.

## Asparagus Plumosa

Strong 2-inch plants @ \$6 per 100; \$50 per 1000. Strong 4-inch plants @ \$15 per 100; \$125 per 1000.

**Robt. Craig & Son,** Market and 49th Streets, **Philadelphia.**

Chrysanthemums, 2½-in.

Carnations, from soil.

Geraniums, 3-in.

All fine stocky  
...plants **Cannas,** 4-in.

Write for Quotations.

The Cottage Gardens,  
QUEENS, L. I.

## CHRYSANTHEMUMS!

All the very best commercial varieties, viz.:

Marquis de Montmort, Lady Fitzwigram, Bergmann, Merry Monarch, Glory of Pacific, Robinson, Henderson, M. M. Johnson, Golden Trophy, D. Spaulding, Viviani-Morel, Mrs. Perrin, Ivory White, Ivory Pink, M. Bonnaffon, Mayflower, Modesto, Jerome Jones, white, yellow and pink, Maud Dean, H. W. Riemann, Lottie Berry, Maud Adams, Emil Buettner, Gretchen Buettner. Stock unexcelled and very large quantity of it ready. Let us book order for now or future delivery. 2½ in. \$3.00 per 100. Cuttings, rooted, \$2.00 per 100.

Marie Louise Violets, rooted runners, \$10.00 per 100. . . .

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MORTON GROVE, Cook Co., ILL.

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3-INCH, \$4.00 PER 100.

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At the Omaha Convention ❀ It would be folly to attempt selling surplus spring stock, but you can dispose of it now by advertising in ❀ ❀ ❀ ❀ ❀ ❀

The American Florist

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OUT OF 2 1-2 INCH POTS. ❀

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AMERICAN BEAUTIES	\$5.00	\$45.00
METEORS	3.00	25.00
BRIDES	3.00	25.00
MAIDS	3.00	25.00
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CUT FLOWERS  
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## ROSES. ROSES. ROSES.

American Beauties, Bride, Bridesmaid, Bon Silene, Caroline Testout, Kaiserin Augusta Victoria, La France, Meteor, Morgan, Perle, Souvenir de Wootton, etc., etc.

Also Clothilde Soupert, Mossella and Clara Watson, suitable for immediate planting for summer blooming in extra fine stock from 3 and 4-inch pots.

JOHN N. MAY, = Summit, New Jersey.

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Brides, Bridesmaids, Perle, Sunset, Niphotos, and new climbing Niphotos, 2 1-2 in. pots ready for a shift, \$2.50 per 100. **MUMS:** Murdock, Ivory, Whildin, Prass, Inter Ocean, Morel, John Shrimpton, Niveus, Mutual Friend, C. B. Whitnall, Bonnaffon, Robinson, Philadelphia, Dailedouze, Yellow Queen, etc., \$2 per 100, 2 1-2 inch pots; Mrs. A. F. Wienold, 20c each, \$1.50 per 12, \$10 per 100. McDONALD & STEELE, Crawfordsville, Ind.

## Chrysanthemum PRESIDENT GRAHAM

Yellow Sport of JEROME JONES.

It received the highest points and a **Certificate of Merit** at the Cleveland Chrysanthemum Show. It is in Yellow what **Jerome Jones** is amongst the White. The very best for late blooming. 2½-in. pot plants, strong, \$2.50 per doz.; \$20.00 per 100. Stock ready April 15th.

E. J. PADDOCK, 295 Erie St., CLEVELAND, OHIO.





Cleveland.

SLOW SALES ARE THE RULE.—STOCK SHOWS THE EFFECT OF HOT WEATHER.—GASSER'S CARNATIONS.—MEMORIAL DAY.—DROUGHT IS IMMINENT.

The stores are beginning to feel the effects of approaching summer in the form of slackening business. A few weddings have enlivened demand, although none of them have been very elaborate affairs. Two funerals of very prominent citizens occurring upon the same day, made business very brisk for nearly every one for that day. Some very large arrangements were to be seen at both obsequies. Approaching weddings and commencements will possibly stimulate matters for a while, and then everything will be off for the summer.

Roses and carnations show the effects of hot weather and are very small and poor, although the writer saw at J. M. Gasser's lately some carnations that would compare very favorably with the stock of early spring. His white Day-break and Eldorado were particularly good. Outcast for red was very fair, although not up to the Jubilee standard. Mr. Gasser thinks very highly of Outcast, blooming, as it does, much more freely than Jubilee.

Chas. Erhardt, lately of Prospect street, has moved down on Euclid avenue.

Memorial day trade was pretty much as usual, nearly all the business being done by florists near the cemeteries. The downtown establishments, as a rule, hardly knew in a business way that May 30 had arrived.

Stock of all kinds planted out of doors is beginning to suffer by reason of lack of rain. On the light, sandy soils more especially growth is very nearly at a standstill. A.

Providence, R. I.

The monthly meeting of the Florists' and Gardeners' Club took place on the evening of May 27. A pleasing feature of the evening was the presentation to Ex-president Farquhar Macrae of the gavel used by him during his term of office. The presentation speech was made by ex-President Canning. It was voted that at the next regular meeting, Friday, June 24, light refreshments should be served, the idea being that some attraction of this kind might increase the attendance at the meeting. W. B. King exhibited two seedling carnations.

# Pillar-Catter


## STOPS CATIRPILLARS

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LOUISVILLE, KY

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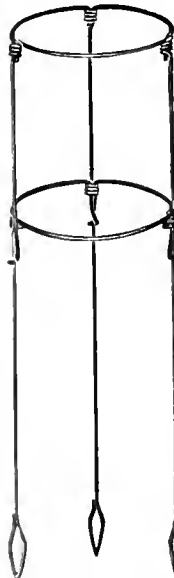
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QUEENS, N. Y., Feb. 16, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.

Very truly yours,  
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.  
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we endorse it as an up-to-date carnation support. Yours truly,  
DAILEDOUTE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.

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Yours truly, E. ASMUS.

Write for price list and discount on early orders.

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BEST GRADES. PERFECT WORKMANSHIP.  
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Cincinnati.

EXCELLENT BUSINESS MARKS THE FIRST WEEK OF THE MONTH OF THE SWEET GIRL GRADUATE.

Business has been much more satisfactory during the past week, than has been the case for some time. Roses, especially, were in good demand and choice stock sold out each day. The supply of carnations has been heavy, but there is no surplus. Sweet peas are offered in large quantities, average prices ruling, 25 cents per 100 being the current rate. Light colors are preferred. Our wholesale houses report a fair shipping trade. Commencements and June weddings are now in order and we expect to see the closing month of the season a good one all along the line.  
H. SCHWARZ.

ALVIN, TEXAS.—Hundreds of hands have been employed for two weeks past picking and packing Cape jasmine buds for shipment north. Although the crop was large it did not equal the demand.

LAKE GENEVA, WIS.—Herman Fisher, of the Lake Geneva Floral Company, has recently had some very fine displays in Hammersley's windows. Notable among them was a large flag wrought principally with carnations.

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Send to day for Catalogue and Price List.

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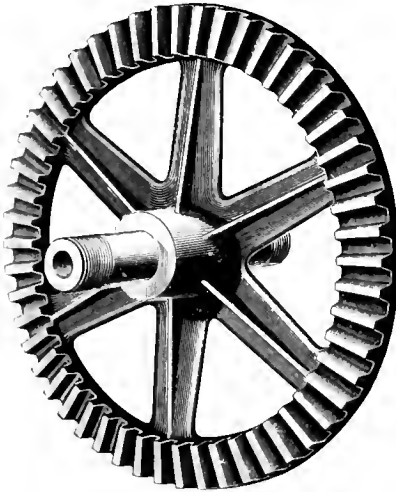
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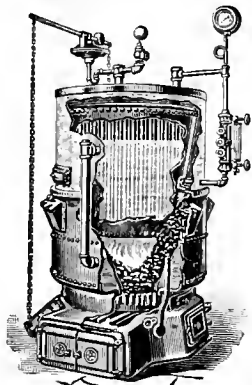
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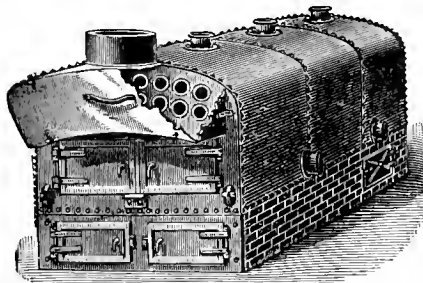


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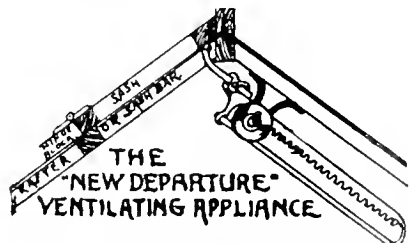
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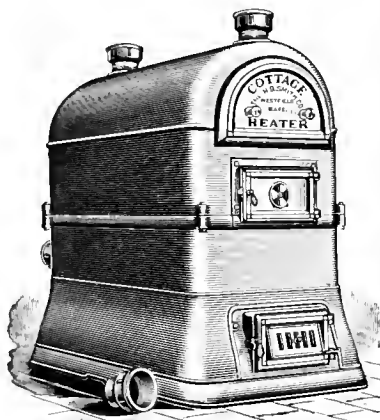
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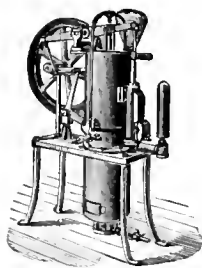
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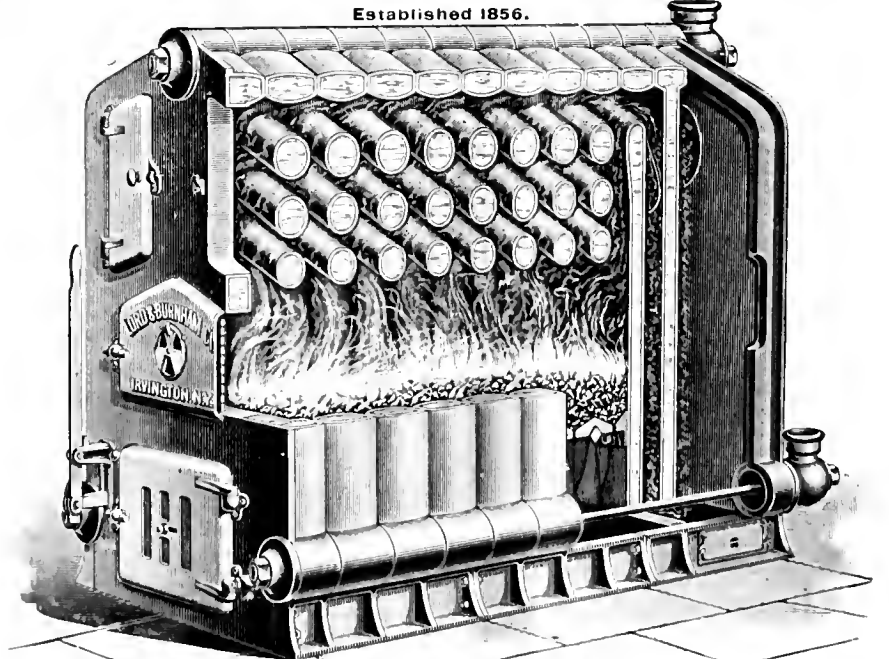
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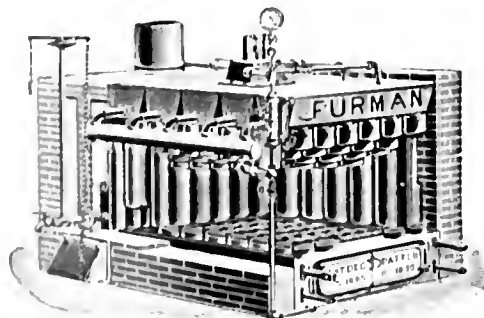
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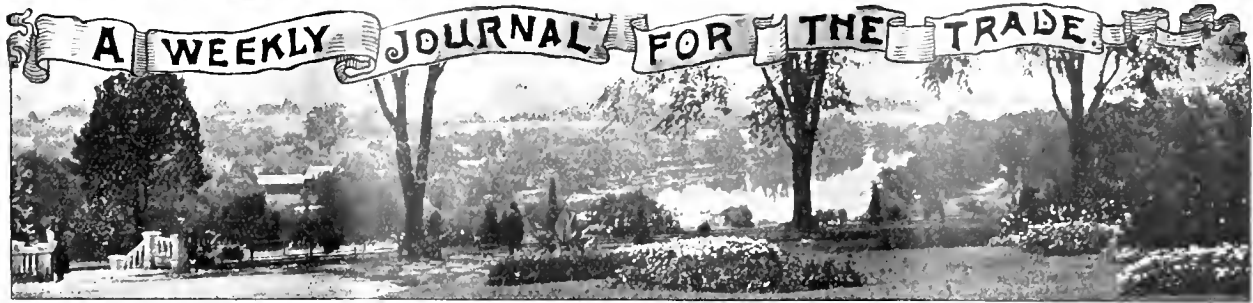
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Vol. XIII.

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### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

### CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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### A Correction.

The Asparagus Sprengerii advertisement of Messrs. A. Blanc & Co., of Philadelphia, in recent issues, should have read \$6.00 per 12 instead of \$6.00 to \$12.00.

### Bulb Growing in the State of Washington.

The following report on the bulb industry and its prospects in Washington, by the party of Holland growers who recently visited that state on a tour of inspection, has been handed us for publication by Mr. A. Simon, of the Illinois *Staats-Zeitung*:

We arrived at Bellingham Bay on Tuesday, May 19, bearing letters of introduction from Andreas Simon, agricultural editor of the Illinois *Staats Zeitung*, a gentleman who has made several visits to Whatcom county and is quite familiar not only with the towns on Bellingham Bay, but with the adjacent agricultural districts, to Messrs. C. N. Larrabee, president of the Fairhaven Land Co., of Fairhaven, and C. L. Anderson, manager of the Bellingham Bay Improvement Co., of New Whatcom, and others. Our entire party being bulb growers in Holland, and having heard and read of hulf growing in the state of Washington, we came here for the purpose of looking over your country and to judge of its possibilities for the production of Holland bulbs. On our arrival at Fairhaven we were shown that town and New Whatcom on Bellingham Bay, affording many fine views from the drives and streets overlooking this beautiful sheet of water. The first farm we visited was that of Mr. Hugh Eldridge located on the north side of the bay, about a mile west of the city of New Whatcom. We also visited the neighboring farm of Mr. John Bennett. Both farms are under a high state of cultivation, general farming and market gardening being carried on there. At Mr. Bennett's place we saw some excellent narcissi, lilies and general nursery stock, besides excellent plants of paeonies and dielytras.

On Friday the 20th, in the early morning, we left Fairhaven by the steamer "Buekeye" to pay a visit to Orcas island. The run to Orcas took us about six hours as the steamer touched at numerous post-offices and landings of minor importance on the route; but we enjoyed it so much that the time was passed before we knew it. About one o'clock we landed at Orcas, where we were to visit Mr. Geo. Gibbs, who has been engaged for four or five years at that place in the cultivation of Holland bulbs and choice shrubbery. Mr. Gibbs was not expecting us, but it was not difficult to find where he was, for everybody around there knew of him and the work he has been doing in bulb culture. Mr. Gibbs is pleasantly located on the southwest side of Orcas island, overlooking the waters of West Sound, a minor branch of Puget Sound. He has been located here for a number of years, but it is only recently that he took up

experimenting with bulbs. Here we found quite a good many Holland bulbs, such as hyacinths, tulips, crocus, narcissi, lilies, etc. They were grown in a very rich, dark, sandy loam with a clay subsoil.

Mr. Gibbs told us his tulips were not as good as they had been in former years, on account of his having used too strong a fertilizer this year. Of course, the time of flowering was past, as spring seems to be early on Orcas island; but we were astonished to see such fine plants grown in this part of the world by a man who has never been trained in bulb culture. The hyacinths looked healthy, as did the crocus and narcissi. Here we saw lilies and other plants growing stronger than we had ever seen them before in any country, and we mention especially the *L. Wallichianum*, *L. candidum* and *L. Washingtonianum*. The soil there seems to be very well adapted for raising *Dielytra spectabilis*, paeonies, English iris and lily of the valley. We devoted some little time to looking over Mr. Gibbs' farm, and found that, in addition to the growing of bulbs and shrubs, he has a very choice young orchard, in which were growing all kinds of fruits, save those that can be produced only in the tropics. We have never, in our experience, found such a growth of fruit stock as at this point. We left the island at six o'clock in the evening, and took with us the impression that this beautiful spot is immensely rich and the climate excellent—all that is claimed for it by the residents of the island. The choicest strawberries were just ripening, and were sampled by our party.

On Saturday, the 21st, we visited the land in the vicinity of Lake Padden, a mile and a half east of Fairhaven and the source of the water supply for that town. We found here a number of small farmers, all engaged in the cultivation of fruits and berries. The soil being a sandy loam, underlaid with clay in most instances, but in a few places we found sand at a considerable depth. One of the principal fruit farms at Lake Padden is that of Mr. Baats. He is cultivating a tract of warm sandy soil, especially adapted for berries and small fruits, which for general marketing purposes could not be excelled. All the cultivated tracts of land in this vicinity show the best of care and attention of the owners, and it was represented to us that the business of raising small fruits and vegetables for the market was quite remunerative.

On Saturday afternoon, through the courtesy of Mr. Anderson, of the Bellingham Bay Improvement Co., of New Whatcom, we went by rail to the town of Everson, located some sixteen miles

from New Whatcom on the line of the B. & B. C. R. R. We were met at that place by a Mr. Simpson, who kindly took us over his farm and other adjoining places, showing us the different kinds of soil, as well as growing crops. We found some very good sandy loam at this point, located in the valley of the Nooksack river, the lands being what are termed, locally, as "river bottom" lands, which in our judgement would make a very good soil for producing bulbs. It has a subsoil more like that found underlying the bulb growing lands of Holland than we found at any other point we inspected. Mr. Simpson, however, told us that these lands were quite low, and at certain seasons of the year, for short periods, the river overflowed its banks and submerged them unless protected by dikes, and that being the case, until some provision was made for these overflows, it would be dangerous to use them for bulb fields. The time allowed us at Everson was very short but still long enough for us to ascertain that most excellent farms can be had there, if the lands already cleared are brought under good cultivation.

The following day Mr. Canfield, of New Whatcom, took us for a drive to Lake Samish. The entire road from Fairhaven to Lake Samish lay through timber, much of which was the finest we ever saw; in fact, none of our party had ever seen such large specimens of cedar, fir, or spruce as was shown us on that trip. The entire drive is made up of magnificent views at every point. We also found in the woods bordering the drive a good many bulbs and roots growing wild, which are cultivated and considered valuable in Holland. Among those we may mention Solomon's seal, *Spiraea Aruncus*, *fritillaria*, etc. About the lake we found many acres of land, which, in our opinion, if in cultivation, would prove to be most excellent soil for gardening, fruit growing, and even for some kinds of bulbs. The low, flat lands along the lake have many of the characteristics of good bulb land, but the area under cultivation is limited.

On May 23 we visited the lands in what is known as the Old Fort Bellingham district, located on the north side of Bellingham Bay, about five miles from the cities of Fairhaven and New Whatcom, where many years ago was stationed a company of United States regulars. A fort and stockade were erected at this point for the protection of settlers from the Indians. This historic ground has been used now for a score of years for fruit growing and market gardening. The land lays with a gentle slope to the south west and the soil is exceedingly fertile. We paid special attention to the lands of D. E. Tuck and A. Houser, which were fair samples of all the lands in that neighborhood. The strong growth of both fruit and vegetables on these tracts indicated that the soil is very warm and superior for early and fine vegetables. We found growing here a great variety of fruits, such as apples, pears, peaches, plums, etc., all of which were growing luxuriantly. As no bulbs had been grown here, it was hard for us to judge whether they could be produced here successfully or not. It would require a practical test to demonstrate that—but we were favorably impressed with the soil in this local area, which consists of about one foot of sandy loam underlain with coarse, yellowish sand, being only about four feet above water. We found here many choice plants of a fine species of *Camassia*.

In the afternoon we drove south from Fairhaven to the town of Edison in Skagit county, a distance of some thirty or

miles, over one of the choicest gravel roads we have ever had the pleasure of driving upon. For the entire distance one has a beautiful view of the Sound and most magnificent scenery. Here is located in one body, a tract of several thousand acres, which for the most part has been reclaimed from the sea, and is protected from the salt as well as from the fresh water streams that pass through it by a system of dikes. The principal crops grown here are hay and oats. The soil is extremely strong and fertile, being of a variety of peat, the surface soil underlain with a sand and clay formation. While this is one of the richest agricultural districts in the state, at the same time we hardly think it would be adapted for the growing of choice bulbs.

Our visit to Whatcom county was limited to five days, no part of which time was lost, as we were on the road constantly, when not partaking of refreshments or sleeping. We were in the vicinity of Bellingham Bay long enough, however, to get the impression that, in the near future, the cities on its shores will be the center of an exceedingly rich agricultural district. Manufacturing is carried on extensively here, and in addition to having ample railroad facilities, Bellingham Bay is one of the most perfect harbors that we have ever seen, and must be, in the near future, a very important shipping point. The lumber business has been the principal industry up to the present time, but many new establishments for the packing and shipping of fish are being erected, and the water front presents a very lively appearance.

We are under obligations to the many persons whom we met on Bellingham Bay during our stay, and for the information given and attention shown us by them.

W. WARNAAR,  
L. VAN LEEUWEN,  
HARMAN C. BAARTMAN.

Mr. Simon adds: That these gentlemen evidently were unable to discover an ideal soil for hyacinth growing in the above named region is not to be wondered at, for it certainly seems impossible to make

a through investigation of the different soils in Whatcom and the adjoining Skagit county within the short period of four and one-half days—this having been the duration of their sojourn.

#### Winter Forcing in the Open Field.

A bulletin of the Missouri Experiment Station describes a method of forcing asparagus in the open field which has proved very successful.

Ditches were dug between the rows in which 4-inch blocks were laid at the sides on which boards were placed, the ditches being then filled in. Through the passages thus formed steam was forced. As the bottom and sides were formed by earth only the steam readily found its way into the soil, moistening as well as heating it. About one foot of soil was placed over the crown of the plants and the whole covered with six inches of horse manure. The horse manure not only retains the heat but ferments quickly and adds to the heat from the steam. The asparagus was forced during December and January, the best results being during the coldest weather when the thermometer frequently went below zero. The stalks were cut as soon as they reached the surface of the soil and were very fine. It is claimed that one season's growth leaves the forced plants in perfect condition for a second forcing.

The expense was very small. For a plot 25x25 feet, which was run for fifty-eight days, the time of running the steam averaged seventeen minutes daily, and as there were six ditches the average was only three minutes daily for each ditch. The coal consumed, by careful measurement, amounted to \$1.82 in value. The temperature of the beds was not allowed to go much below 60°. This experiment would, if carefully carried out, be quite promising as to hastening the blooming period of hardy flowers and even shrubs. It is well known that spring bulbs, paeonies, lilacs, etc., are no longer profitable to the average grower for the wholesale market, while if they could be hastened even a few days there would be a good demand with fair prices.



A PIONEER'S HOME IN THE NORTHWEST

## Herbaceous Plant Notes.

As the season advances we see new features in the herbaceous ground every day; by the end of May hundreds of species and varieties are out in full bloom; many of them, being very valuable for cut flowers, should be grown extensively by our florists. The large flowering aquilegias and some of the smaller free-flowering species are truly useful in many ways; they are elegant, unique and graceful. What flower can we compare with the delicate, slender spurred, blue and white *A. cœrulea*, or the deeper colored, shorter spurred, *A. glandulosa* and *A. Olympica*, with some of their hybrids? We have no other flower which approaches in any way the singular and elaborate construction or peculiar delicacy of coloring represented in almost all the aquilegias. Of course if we only grow the ordinary garden varieties of *A. vulgaris* or *A. Sibirica*, which are nearly all small flowered and often dull and uncertain in their coloring when grown from seed, and if we are not familiar with the graceful, large, open flowers of the other species, then the above description must appear as an exaggeration; but I have never seen a lover of flowers yet who would not stop a few moments at least before a bed of the rarer species, or even the selected varieties of the common columbines; they are always interesting.

The irises are very plentiful everywhere and all of them, even the inferior sorts, sell readily in the cut flower market; but it is good policy to grow only the very best. The pyrethrums have found their way into the cut flower market long ago, and the single forms in bright red and white are decided favorites; they are used often in preference to the doubles for parlor vases. *Hemerocallis flava*, the lemon-colored day lily, has been used extensively for many years; it has been in bloom with us since the latter part of May, and as we have a good lot of it planted out we may be able to cut from them for a month to come. *Lychins viscaria* fl. pl. is a mass of dazzling color and attracts the eye from afar. Where a bright flower is wanted for any purpose this fills the bill in the month of June, and we cannot do without it. Having a stiff erect stem of good length and excellent lasting qualities, it is a capital thing for vases.

*Ethionema grandiflorum* is one of the daintiest cut flowers at this time of the year. The slender stems grow semi-erect and from ten to twelve inches long; they are closely set with small linear leaves and every one of the twigs terminates in an elegant flowerhead. It is little known and but seldom found in collections, probably only because some difficulty is experienced in its propagation, though cuttings of the half ripe wood root quite freely in midsummer and will make good, strong, blooming plants in less than two years; seedlings will produce a few flowers in their second year, but seed is rare and the young plants are very liable to damp off before they are large enough to handle; layering may be practiced successfully, but the layers should not be separated from the old plant until well rooted, which usually takes more than one year, unless the season and conditions are very favorable for the formation of roots. It is with us perfectly hardy without protection, never freezes back, and when once planted will last forever apparently; we have a few very old plants which never were disturbed since first planted; each of these measures about eighteen inches across, a dense mass of delicate pink. A few plants on the half



GEO. WITTBOLD'S NEW STORE IN BUCKINGHAM PLACE, CHICAGO.

shady part in the rockery do not grow quite so compact as those in the open border; their growth is longer and thinner, but, rambling loosely over the rocks, the beauty of every individual flower on the plant is shown to advantage; and protected as they are here from the hottest sun, they last much longer in perfection.

*Hornium Pyrenaicum* is a low free growing plant which sends up numerous spikes well furnished with deep blue salvia-like flowers. Dark blue at this season is quite scarce among the cut flowers, and with us, at least, everything in this color is used up as fast as it comes out; the stems are about ten inches long and the spikes thickly set with showy flowers to their very tips. The foliage is short and broad, rather rough to the touch, but neat and evergreen; the habit is compact and clean; no dead or decaying leaves show beneath the younger growth; it is easily propagated by division in spring or fall and extremely hardy; light soil is best for it, though good results were obtained in a stiff but rather dry loam, while in wet places the plants are generally short lived. Another very useful blue flower is the ordinary *Campanula glomerata*, but when you want the deepest and brightest shade *C. glomerata* *Daurica* is the one to plant; it will not reproduce itself from seed and must be increased by division or from cuttings. The stems grow up to a height almost of two feet on old, well established plants; the big, many-flowered, close heads are really beautiful and remain in perfection for a long time; new flowers open out as the older ones fall off. The Cheddar pink, *Dianthus cœsius*, is freely used here as a cut flower and is very popular, principally perhaps because of its very decided and lasting clove perfume; the color is a soft shade of pink, the flowers not very large but well shaped with deeply fringed edges; no other of the whole family is so delightfully fragrant, though the flowers in many of the various species are superior to it in size and shape.

*Helenium Hoopesii* is one of the very best deep orange yellow flowers at the

present time; it can be cut in long sprays and keeps well in water. After the doricums are gone this superior flower is ready to take their place. *Thalictrum aquilegifolium* produces long feathery plumes of handsome lilac, pale purple, pinkish or, though rarely, white flowers. It is an excellent keeper and comes handy for large vases and in all decorations.

J. B. KELLER.

## A Model Chicago Establishment.

George Wittbold and his five sons grow palms and tropical plants under 32,000 feet of glass which covers Chicago realty worth \$125 a front foot. The Wittbolds grow most of their stock from seed, importing only such large palms as can be procured from Belgium at less expense than the cost of growing them on here for several years. The Kentias and other palms and maiden-hair ferns are grown remarkably well in a pot, which is one of Louis Wittbold's ideas. The pot is in reality two pots, one within the other, with a common drainage opening, the inner pot being about an inch the smaller. The space between the two walls of the pot is filled with water, the moisture percolating through the porous inner wall in just the quantity most conducive to the growth of these rapid selling plants. The Wittbolds do an extensive wholesale business; they also retail cut flowers and enjoy a large trade in decorative work. They conduct two stores, that illustrated herewith being their principal establishment.

## Carnations.

The season is practically over, and as cleanliness is an essential feature in good carnation culture, cleaning up should be done at once. A very good plan is to let the houses dry off thoroughly, then the old plants will be dry enough to burn as they are taken out instead of leaving them to rot and breed disease on the place. Burning is the only effective means of destroying many of the diseases the

carnation is heir too, and while these diseases are really not so terrible as they are sometimes represented to be, yet when we have the chance to burn them up it is advisable to do so. In cleaning up the houses make a thorough job of it; then close them up tight and burn a liberal quantity of sulphur in the house; this will kill all the fungus germs that may have been lodged around the wood work of the house, and if strong enough will clean up the red spider so that there will not be one left.

As to changing the soil every season, that is a matter of opinion, or, perhaps, to state it more correctly, a matter of soil. I have used the same soil in a bench for five consecutive years, and by careful comparison found very little difference between the soil that had been in five years and that which had been put in fresh the same season. I prefer, however, to change the soil every third year, and if a variety is very rusty the soil in which that variety has been growing is changed each year. It is a good plan to put in the new soil now if you are changing and let it get thoroughly dry; this sweetens it and helps to kill some of the weed seeds it may contain. Let it dry until about August 1, when it should be well enriched with manure at least a year old and then watered, this will bring out the balance of the weeds and they can be kept down until August 15, by which time, if the weather is favorable, planting should begin.

In a former paper I wrote on the prevention and elimination of rust on a variety by potting the plants and growing them under glass during the summer. I have faithfully followed the instructions given in that paper, and to-day the variety on which I experimented is in the field practically free from rust and fine, strong, healthy looking plants; those in the house in pots, and some on benches, with extra good care and treatment, are covered with rust and not nearly so good otherwise. All this, too, in spite of the

fact that the season has been very unfavorable for field-grown stock. The result of the experiment is that in the future I shall depend on good field-grown stock, and do that which I know from past experience and observation will bring me good results. It is all very well to write on the proper method of carnation culture and read the writings of others, but it is only by close observation of the carnation on your own place and giving it a lift where it needs one that paying results are to be expected.

It would be interesting to hear from some who make a success of growing carnations under glass all summer. A detailed statement of their methods of culture and the monthly cut from a given area beginning with October and closing in June, would give antiquated growers like myself some data to work upon. There are a hundred and one things to be done now in the shape of painting, looking after the glazing and the benches and heating apparatus, all of which should be spick and span for their rest over the summer season. By doing all these things now you will be free to attend the convention in Omaha and give a few days to the exposition without feeling that you ought to be at home getting ready for the winter.

ALBERT M. HERR.

#### *Cercis Canadensis.*

The judas tree or red bud, which illumines the woods in early spring with clouds of pink, is too well known to require any description here. It is one of our most beautiful native trees. It makes an effective companion to the white *Cornus florida* and shares with it the honor of standing at the head of the list of beautiful and showy trees for hillsides and borders of woods, and for general planting in parks and large estates. Several varieties bearing flowers of deeper pink than the type have been introduced from time to time, and a fine pendulous form is an especially valuable acquisition.

#### Chrysanthemum Notes.

In growing chrysanthemums for the wholesale market it is well not to run on too many varieties. Better have more of a few varieties that you are familiar with, so as to be able to make good shipments of one variety or color, as they are mostly called for by the dozen; and again, when growing a good sized batch of one variety, they are much easier to treat, and the average of high grade blooms will be much larger than if one attempts to grow six or eight varieties in the same space. If a few plants are needed of several varieties that do not come up to the commercial standard, though they may be useful for exhibition or some other special purpose, plant them on a bench by themselves; they can then be treated separately. The mid-season varieties should now be planted as soon as the benches can be made ready for them. The success of the operation will to a large extent depend on firm planting and on the application of water sparingly for a few days until the plants have commenced to take hold of the soil.

The following varieties will bloom about the same time and are as near as possible of the same height: Major Bonaffon, Ivory, pink and white, Mrs. Perrin, Geo. W. Childs, Defender and Mrs. Henry Robinson, after which comes Maud Dean, Mayflower, Vivand Morel, Charles Davis, Mrs. J. J. Glessner, Western King and Evangeline. Then we have Mrs. J. Jones, W. H. Lincoln and H. W. Reiman. Golden Wedding, Modesto, Mrs. S. T. Murdock and Eugene Dailedonze are tall growers and bloom about the same time.

C. W. JOHNSON.

#### Helpful Reminders.

It is now necessary to put everything in shape for summer. Start your best house with palms and the choicer plants; prepare a potting bench of soil carefully fertilized; pick out all the plants that need a shift; move them to the potting shed; clean them nicely and give each careful attention; don't treat them all alike unless they really are alike; some want a larger pot; some are sour because drainage was poor; some are so loosely potted that the water runs through without wetting the whole ball, and have in consequence suffered for moisture and become infested with scale and mealy bug; some are in order except that the soil is poor and needs a little fertilizer. After you have them in shape do not return them to the greenhouse until it is cleaned up. Arrange one bench at a time; get as many pretty things in the house as you can for summer show; large palms may be raised with ferns under them, or side benches of ferns, gloxinias, fancy caladiums, auratum lilies, anthericum, pandanus, *Cissus discolor*, aloccasias, bougainvilleas, ficuses, Grevilleas, bamboos, etc. Arrange the house so that each plant has the requisite amount of light and so that each plant will become more valuable every day; then take hold of your other houses.

Get all your common stock into one house, or two, as the case may be, have all of each variety together. Many plants unsalable to-day, if trimmed and repotted, often sell or come in nicely for a decoration later on, and by having them in a small compass you can more easily care for many plants. One plant in particular requires this attention—the hydrangea. All unshapely plants should be cut back now and good shoots should be put in the propagating bed. The growth that is formed from now on should hold over



CERCIS CANADENSIS



for flowering next spring, and if wanted for Easter they cannot be repotted later than this.

Amaryllis are about done blooming, but don't neglect them. Keep the pots free from weeds; now is the time to build up for next season's bloom. Keep camellias well syringed and protected from burning sun, and take the same care of your azaleas.

After you have put everything in order take a wholesale price list and put the selling price on every plant. You will then have things adjusted for the coming season and your employees can sell correctly for you. You will also be in a position to estimate on what purchases are necessary for fall. Get as much of your next season's stock in early as you can. Any one who has not followed this line of management and will do so carefully will be surprised to learn how much more accurate calculations are and how many odds and ends are saved. A florist who needs five houses from October to May only needs three in July, August and September, and the remaining two would better be entirely empty. C. B. W.

#### Notes and Comments.

There are at least two ways to make use of sulphur in greenhouses. One is after we get a bad dose of mildew, and the other is before—as a preventive. I prefer the latter method. I am reminded, also, that there are different ways of applying this useful fungicide. Whoever applies sulphur for the first time invariably holds the delivery pipe of the bellows close down on the plants, with the result that the material is applied in streaks, which has a very careless look and is not so effective as if the operator held the nose of the machine somewhat "tip-tilted" or at a slight elevation, and in this way the atmosphere in the house is more uniformly filled and the flowers of sulphur more evenly distributed over the plants.

During the recent almost continuous rainy weather our sulphur became damp and would not distribute with any degree of satisfaction. C. A. Schmitt asked if air slacked lime would do any injury if mixed with the sulphur, the object being to bring about a possible drying process and consequent better distribution; and thinking it would not do any injury we agreed to the experiment. He proceeded to mix the lime and sulphur together in equal proportions in bulk, when he found that just as soon as the two substances came in contact a very perceptible heat was generated. It soon, however, passed away, and on referring the matter to Prof. Wm. Frear, of State College, Pennsylvania, he said: "I have never observed any chemical action between air slacked lime and flowers of sulphur. It is entirely possible that the reaction you observed and the brief heating was caused by the moisture, which taken in the flowers of sulphur in sufficient abundance to prevent its being easily distributed by the bellows was sufficient to further slack the caustic lime. This would account for the heating of a brief duration. In that case, the slacked lime would simply dilute the sulphur and would not prevent its action. I have carefully examined chemical literature and find no mention of any action of finely divided sulphur upon ordinary dry, air slacked lime without the intervention of heat.

The question is if it does no injury there is a possibility that it may do some good, as lime in any form, as I understand its qualifications, is a purifier; but whether it will aid or hinder the sulphur as a fungicide, I do not know. Prof. Frear inti-

mates that the combination can do no harm, and I believe if used as a preventive the mixture would be more economical to use, and it certainly aids in its more free distribution by having the two combined; this applies only, of course, when both separately and in combination they are kept thoroughly dry. E. L.



Louis C. Elson.

Professor Louis C. Elson, of the New England Conservatory of Music, whose address before the New York Florists' Club on "Ladies' Night" is reported at length in the correspondence from the eastern metropolis, is very popular with the florists of New York, Boston and Philadelphia, most of whom enjoy his personal acquaintance. Prof. Elson, while making music a study, is a lover of flowers, and no man better fitted could have been selected as the speaker for so auspicious an occasion as the ladies' initial visit to the club.

#### New York.

"LADIES NIGHT" AT THE CLUB.—AN ENJOYABLE ENTERTAINMENT.—HOT WEATHER AND POOR STOCK.—ALL FLOWERS SELLING LOW.—BUSINESS VERY DULL.—A SUPERB CATTLEVA.—MANDA'S NEW ROSES.—THEO. LANG TO BE MARRIED.—A NEW FIRM.—C. W. KNIGHT.

"Ladies' night" at the New York Florists' Club was a conspicuous success. It was the first attempt of the club in this line, hence was regarded somewhat as an experiment, and results were so gratifying to the participants, and especially to the promoters, that "ladies' night" is likely to be an annual occurrence hereafter. Monday evening was the hottest of the season, so far, and one of the most uncomfortable ever experienced in this city. No doubt the torrid weather kept many away who would otherwise have been present, but, as it was, the company outnumbered the hundred mark and fully one-half were of the fair sex.

The effect of Prof. Elson's genial manner and irresistible magnetism was apparent as soon as he began to speak and when, in illustration of the points alluded to, he sat down at the piano and sang song after song he captured every auditor and the applause was enthusiastic. The connection of flowers and music was his theme and he traced it back through the music and poetry of China, Egypt and Greece for thousands of centuries. He sang a Chinese flower song, which is said to be the oldest flower song known, and surprised and delighted everyone when he showed how the now popular "Star Spangled Banner" had come down directly from the music and floral metaphor of the ancient Greek song of the "Myrtle of Venus and Bacchus' vine." The harvest and vintage songs of Biblical times, the floral language of England centuries ago, the Christmas carols and many

other illustrations were given to show how the two subjects, flowers and music, have intertwined in history, and that mankind has always been sensitive to this peculiar connection. Wordsworth, the lecturer said, was, above all, the florists' poet, and he sang Wordsworth's lines, "A host of golden daffodils," to music composed by himself. "Thou'rt like unto a flower," he said, has been set to music more times than any other lines in the whole realm of poetry. The subject of the national flower, the harmony existing among those connected with floral trades, and other interesting points were touched upon, and a galaxy of songs in various languages ended this unique entertainment, after which cheers and a unanimous vote of thanks were accorded the speaker. Then came the ice cream and other delicacies which were appreciated fully, not only by the ladies, but by the sterner sex, who, after serving their guests, helped themselves generously. On the exhibition tables were blooms of a number of W. A. Manda's hybrid Wichuraiana roses and a group of caladiums from Mr. Imbert.

With the mercury in the 90's it may be said with truth that New York is fairly started on the summer season. A look at the thermometer, however, is not necessary for proof of this to any one who has the privilege or duty of visiting the wholesale cut flower establishments these June mornings. The lassitude that prevails in the individual seems to have spread over all business transactions as well, and not even the quiet logic of Johnnie Weir, the spontaneous ebullitions of Billy Bogart, or the unctuous volubility of the Honorable Michael Wiegand, who has recently taken to driving his own wagon daily to the city, are effectual in starting anything like a ripple on the summer becalmed surface of Twenty-eighth street activity.

The early half of last week was fairly busy, but on Thursday, the 9th inst., the tumble came, and it was no half-way tumble either. As to roses the most noticeable fact is, as a rule, their miserable quality. With mildew, faded color and wilted tissues, a large proportion of them are too poor to offer to any one, and it is high time their owners tossed them out, root and branch, and replanted the benches. Carnations are piled up all around; big fellows with two and three-foot stems, and no offer between 10 cents and 50 cents a hundred is refused by those having them in their possession. Sweet peas are beginning to come in from outdoors, and this is the death knell of the indoor crop, which can neither compare in quality nor compete in price with the garden grown crop. Lily of the valley is needed every day and a certain amount is easily disposed of for special occasions, but this does not mean that a larger stock than these particular calls demand can be floated, or that anything more than recent low quotations can be forced upon buyers. Lilies are abundant and of splendid quality, with sales fairly active but at absurdly low prices. Peonies are heaped high and values in quantity are away down, although a few dozen are easily disposed of daily at each establishment at rates that would make peonies good property if they would bring such figures throughout. Smilax has gone to the bottom of the ladder, along with everything else, sales being also very limited. Moss roses are fine this year.

In Bridgeman's window last week a superb plant of *Cattleya gigas* attracted much attention from passers by and also from expert visitors who recognized in it

a specimen the equal of which has rarely been seen in New York. Growing in a 7-inch basket, it carried seven leads, five of which bore five flowers each and two bore four flowers each, thirty-three blooms in all. The plant came from Macdonald & McLannus, who have some more sensations of the same sort on the way. There would seem to be a good profit in plants such as this.

W. A. Manda is justly elated over the splendid showing which his hybrid Wichuraiana roses are making. The plants now in bloom at his South Orange nursery are four-year-old seedlings, Wichuraiana being in all cases the seed parent with Hoste, Perle and Meteor as pollen parents, and they are of tremendous size and covered with blooms. One of the Perle-Wichuraiana crosses bears handsome double flowers rich yellow in bud and nearly white when fully open, very large and very fragrant. All of these roses have proved to be evergreen. The great number of novelties in all classes of plants, hardy or otherwise, which Mr. Manda has to show makes his place very interesting to visitors.

Theo. J. Lang is to be married to Miss Etta Heintz on Tuesday, June 28. Miss Heintz has been clerk in Mr. Lang's Sixth avenue store for some time.

C. B. Knickman will associate himself with his brother, J. D., and start in the retail flower trade at Brooklyn this summer under the name of Knickman Bros.

Chas. W. Knight, recently gardener and superintendent of E. K. Ladew's place at Glen Cove, has been seriously ill for several weeks.

The seventh annual fishing excursion of P. L. Bogart's employees will take place on July 14. The steamer Isabelle will be the favored craft.

### Philadelphia.

OLD SOL POURS HIS SCORCHING RAYS UPON THE CITY OF BROTHERLY LOVE.—STOCKS AND THE MARKET.—HEACOCK'S PLANS AND METHODS.

Ninety degrees in the shade has been the noon-day heat mark with us for the past few days. This is disastrous to business and it had its effect on the stock. Brides and Maids being very small, Meteor stands the heat better. Beauties, on account of their size, are in demand, but are mostly very tight or full open. Prices are about the same as last week. Carnations are getting poor and most of the stock fit to sell in the stores goes for \$1 per 100. The fakirs get the balance at their own price. Outdoor grown sweet peas are now in and sell at from 25 cents to 40 cents per 100.

The storekeepers are doing but little these days. The June weddings are mostly over and what little demand there is comes from school commencements. Houses are closed all over the aristocratic district, for everybody of note is out of town and will probably not be heard from until next October.

Growers are not paying much attention to cut flowers at present and one house after another is being thrown out to make room for next season's stock. It is a hot job working at clearing and filling tables with soil in houses where the sun scorches with full power, with the thermometer registering among the nineties in the shade. It is quite different, however, if a shade cloth is drawn over the house from the outside, as is the custom at Joseph Heacock's, then, with the ventilators up and the doors open, it is like working under the trees. The cloth is the cheap shading stock used in palm houses,

enough being sewed together to cover a house. No large place should be without a cover of this kind, as it makes such hot work an easy job. Mr. Heacock is planting sixteen houses with roses, ten to be devoted to Beauties and the balance to Meteors, Brides and Maids. Meteors paid him the best the past season per table foot of space. A barrel with a force pump on top is used to syringe plants requiring an emulsion of insecticides. The apparatus is wheeled from house to house. A pipe fitted with a valve is attached to the flow and leads to the bottom of the barrel and when the valve is partially opened forces a portion of the liquid to the bottom and keeps the ingredients stirred up.

The John Lankford store on Thirteenth street has been purchased by Mrs. Schelly, of 60th and Pine streets, to be run as an adjunct to her place. K.

### Boston.

PARK IMPROVEMENT.—THE CRITICS HAVE ANOTHER SPASM.—BUSINESS QUIET.—PRETTY WEDDING DECORATION.—DEATH OF EDWIN FAXON.—MR. FARQUHAR GOES TO JAPAN.

Substantial permanent improvement in Boston's parks and boulevards is being rapidly advanced. If Mr. Pettigrew has a hobby it is "loam." His faith is rooted in loam—deep loam and plenty of it, and he has been buying it this spring wherever offered, thousands upon thousands of loads. We have had an impressive example of the results of the opposite policy which prevailed a few years ago in the condition of a large number of trees that have just been removed from the driveways of the Back Bay Fens, their places being filled with intelligently planted substitutes. The original trees have been struggling for life in saucer shaped beds of loam, three feet wide and about a foot in depth. Seven feet wide and three feet deep is the loam space being given the new trees by Mr. Pettigrew, and, in addition, a trench of equal width and depth, opposite each tree, is opened across and under the gravel sidewalk and filled with good soil. Had this been done at the start the roads would by this time be well shaded by rows of large vigorous growing trees instead of the spindly things—many of them tied up to stakes for support—which have now very properly been consigned to the brush heap.

But the removal of these evidences of past meapacity has furnished another opportunity for the meddling critics of the park department who are ever seeking publicity for their peculiar grievances through the columns of the daily papers, and a mighty protest has gone up against this fresh "vandalism." The stupidity of the original planters, as well as the unreasoning ignorance of the fault-finders of to-day, is illustrated in the fact that many of the "stately" trees that have been trying to exist for fourteen years on these high, dry, gravel roads in a few bucketful of soil, were nothing more nor less than red swamp maples! A recent addition to the ranks of the grumblers is a gentleman who, unlike the others, is a professional landscape architect of considerable repute, whose arguments, however, are apparently lacking in sincerity and appear so ludicrously clumsy that it requires no great penetration to discern an evident purpose to propitiate a certain class, with an eye to future business, by appearing to favor views at variance with the writer's own convictions.

City trade goes on in a somewhat

sleepy way for the month of weddings and graduations. The demand for flowers is not as active as might be expected, and wholesale prices are very low all along the line. Country trade is proportionately better than local, and the wholesalers have been doing a fair amount of shipping to New England points, in small lots. Outdoor roses are beginning to appear here and there; the avalanche will be on next week if the present very summery weather should continue.

One of the most elaborate decorations of the season was that at Brookline, for the Fenns-Shaw wedding. Evergreen boughs, rhododendrons, snowballs, together with an abundance of the choicer greenhouse product, were lavishly used in the adornment of the church which was elegantly done by Wm. E. Doyle.

Edwin Faxon, an eminent botanist and member of the Massachusetts Horticultural Society, residing at Jamaica Plain, died at West Burke, Va., on June 12, aged 74 years.

J. K. M. L. Farquhar started across the continent on Saturday, June 10, en route for Japan, and will not return till October. Mr. Farquhar may visit China also, and possibly Manila.

### Baltimore.

OUTDOOR STOCK PLENTIFUL.—HUGE HEAPS OF BLOOM BUT LITTLE THAT IS REALLY FIRST CLASS.—COGITATIONS ON TRADE CONDITIONS.—L. H. MOSS TALKS ON OUTDOOR ROSES.

A half day's rain has ended what threatened to be quite a serious drought, and everything is freshened up and vigorous again. Outdoor flowers are very, very plentiful, and a glance into the piled and heaped up storage rooms of the exchange is calculated to make the beholder wonder how it can pay the producer to grow and gather such quantities of bloom, which in the main must waste, and whether the time will ever come when the florist business ceases to be an endless succession of gluts and famines?

With all the over-production there is manifest the fact that strictly choice flowers are scarce. To be sure the standard of excellence is advancing continually and what would have been considered a fine bloom within the memory of middle-aged florists, would hardly sell at any price now, but the standard is not too high yet to be reached by some growers and those who cannot get within pretty close reach of it had better step down and out and devote their time to growing something they can do well. After all, though, it would be hard for a man who had failed to produce perfect material, through some accident or misfortune to throw away the second class result of his efforts, and it is possible that much, if not most, of the inferior grades which make up the over supply are due rather to bad luck than incapacity.

At the club meeting L. H. Moss read a paper on outdoor or bedding roses. He named Mamam Cochet, pink and white; Safrano, Hermosa, Jacqueminot, Kaiserin, Papa Gontier, Clothilde Souper, Queen's Scalet, La France, Meteor and Souvenir de Malmaison as desirable varieties. An exhibit of cut roses by J. L. Wagner attracted much attention. MACK.

KANKARIE, ILLS.—When A. H. Burt returned to his greenhouses a day or two ago he found that a neighbor's pig had rooted through the beds until the whole interior looked like a Spanish fort after a bombardment. Burt quickly converted the pig to pork.

**THE AMERICAN FLORIST**

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insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

We are in receipt of some excellent samples of peony blooms from P. S. Peterson & Son, of the Rose Hill Nursery, Chicago. The eight acres of these plants grown by Messrs. Peterson in 300 varieties will be at their best during the next two weeks, and those interested are cordially invited to view them any day except Sunday.

**Grafting Tomatoes on Potatoes.**

In a paper read before the Royal Horticultural Society of England, Mr. Neild describes some successful graftings both of tomato on potato and vice versa. The tomatoes on the potato produced a good crop of fruit. It was noted that the potato tubers, however, produced roots where ordinarily eyes are formed. The potatoes grafted on tomato stocks did not grow so freely and produced small green tubers in the axils of the leaves.

**The Yellow Rambler Rose.**

ED. AM. FLORIST:—In your issue of April 15 I notice the comments of your correspondent "K" on Aglaia, the Yellow Rambler rose. As the originator and introducer of this variety, permit me to state that only strong three-year-old plants give the best results. The stock generally distributed is still too young to permit of a correct estimate by even the most competent grower, but the parent plants in our nurseries prove every year that this rose is truly a fitting companion to the Crimson Rambler, and I am convinced that "K." will modify his opinion with another year's experience.

Trier, Germany. PETER LAMBERT.

**Fertilizer Cartridges.**

An ingenious Frenchman, M. Georges Truffaut, has prepared and placed on the market a very novel method of applying fertilizers to pot plants. The fertilizer is compressed into cartridge shape and covered with a metallic case, except the bottom, which is not covered. Presumably the fertilizer is in a slowly soluble form. In use the cartridge is pressed into the soil and the fertilizer gradually dissolved by the watering and carried to the roots of the plants.

So far the invention would seem to be, like jadoo, a pleasing and harmless thing enough; but M. Truffaut puts forth some remarkable claims for it. By repeated chemical plant analyses he has succeeded, so he says, in finding the exact fertilizer requirements of a large number of plants and is prepared to furnish cartridges warranted "to just fill the bill" if you will only give him the name of the plant. For instance, the formula for Asparagus tenuissimus is nitrogen, 13.4%; phosphoric acid, 8%; and potash 5.8%, while for pelargoniums it is 8.6% nitrogen, 8.6% phosphoric acid and 8% potash, and so on through a long list. No doubt M.

Truffaut's cartridges are very good in their way, but we are compelled to smile audibly at his long list of special formulas.

All of these "horticulture made easy" inventions, remind us of the small boy with the pin hook and the hickory pole and how often his string of trout outweighs that of the dude with the fancy outfit. The moral of this is that the "know how" counts for a great deal more than the "where with." X.

**Cut Flower Price Lists Received.**

Cincinnati Cut Flower Co., Cincinnati; St. Louis Cut Flower Co., St. Louis; Holton & Hunkel Co., Milwaukee; Louisville Florists' Supply and Exchange, Louisville; Bassett & Washburn, Chicago; City Hall Cut Flower Market, Boston; Wm. F. Kasting, Buffalo.

**Catalogues Received.**

P. S. Peterson & Co., Chicago, Ills., peonies; H. Henkel, Darmstadt, Germany, seeds and plants; Fairmount Chemical Laboratory, Philadelphia, Pa., weed killer; Pierce, Butler & Pierce Manufacturing Co., Syracuse, N. Y., boilers and radiators; Hubert & Company, Ltd., Guernsey, England, plants; James Vick's Sons, Rochester, N. Y., bulbs.

**Greenhouse Building.**

West Chester, Pa.—Max Meyer, range of commercial houses.

Ashtabula, O.—Roger Griswold, Jr., starts in business with one large house.

Topeka, Kan.—Jas. Hays, violet house 8x40. Mary Wallace, greenhouse 18x50.

Chicago, Ills.—Albert Fuchs, four greenhouses, one 25x160, two 25x90 and one 18x90 and 27 feet high, all for palms and decorative plants.

**Society of American Florists.****CANNA NOMENCLATURE.**

It having been ascertained by the Conard & Jones Co. that A. Blanc & Co. had forestalled them in selecting the name of "Admiral Dewey" for a new canna, the Conard & Jones Co. have courteously requested the withdrawal of the announcement recently made in these columns of registration of a new canna to be introduced by them under the name of "Admiral Dewey."

No doubt the present war will furnish a few more heroes from among whom canna introducers may select available and popular names. It would be very pleasant to be able to record the adjustment of all similar controversies over plant nomenclature in as amicable a manner as this little question between A. Blanc & Co. and the Conard & Jones Co. has been settled.

WM. J. STEWART, Sec'y.

**Cemetery Bedding Plants.**

The superintendent of one of the Chicago cemeteries says that of echeveria and alternanthera there are not more than one quarter as much used as there was four or five years ago, and their use is less every year. The semi-double Bruant geraniums have almost entirely taken the place of single geraniums and superseded many of the old double favorites. Beaute Poitevine is easily first among colored geraniums. Mme. Aimela Chevaliere is better than the much grown La Favorite in double whites. Athlete is the only single that people enthuse over. Fuchsias are little used. Crimson Ram-

bler sells like hot cakes if in bloom. Soupert is well liked, as is also pink Soupert. Mme. Caroline Testout is a fine outdoor rose. It grows and winters like a vigorous hybrid perpetual. Perhaps Garrett will be another one. Salleroi is the only variegated geranium for which there is much call. A dwarf marguerite which would stay dwarf would be a boon and a blessing. The lady with the long shawl and a penchant for annexing other people's plants is, as usual, much in evidence.

**Twine for Greenhouse Use.**

It will soon be time for tying chrysanthemums and the question of twine, although not a matter of very large expense, is like all other small things worth considering.

For many years we used white cotton twine for tying purposes whenever raffia was not suitable but of late we have used a one-ply jute twine and for cheapness and convenience find it the best. Its cost is about 9 cents a pound and at a guess we say one pound is equal in length to ten balls of the white cotton. In fact it is so cheap and convenient that we now use but little raffia. When the plants are tied to vertical strings instead of stakes 3 or 4-ply jute twine will just fill the bill and costs only 5 to 6 cents per pound.

Another little point the neglect of which causes loss of material and waste of time, is starting to use the string from the inside of the ball. The most natural way to most workmen is to loosen the outside end and let the ball roll in the path. This results in tangles and snarls, especially when the ball is nearly used up. If started on the inside the ball will lie where it is put and the string will pull out readily until there is nothing but a thin layer of string left. X.

**Propagation of Clematis Paniculata.**

ED. AM. FLORIST:—You will oblige by stating whether clematis paniculata can be propagated from cuttings, and if so what time of the year is best for the operation. SUBSCRIBER.

Clematis paniculata is so easily and cheaply raised from seed that nobody will now attempt to go to the trouble and grow them in any other way, though a number of years ago, when seed was scarce and rather high priced, propagation by cuttings was practiced in many quarters with variable success. The most satisfactory results were obtained by summer propagation in sash frames running east and west, shaded with canvas stretched permanently over a lattice frame a foot or so above the sash on the south side, slanting up to a height of about four feet on the north side of the frame. About a foot of fresh horse manure is tramped in the bottom of the bed, covered with three or four inches of sharp, clean sand, which is then well firmed and thoroughly watered. The thinner and weaker young green wood is cut up into suitable lengths for the cuttings, few of the stronger sappy shoots showing any inclination to root. Once, or in real hot weather, twice a day the cuttings receive a slight syringing overhead and the frame is kept close and tight for three or four weeks; then a crack of air is left on each sash, overnight only at first then for an hour longer, until by degrees the plants are accustomed to a little fresh air all day. Later on the sash are removed, and in a few days the young plants can be potted off, placed in the same kind of a frame and kept close

again for a short time. Strict attention and vigilance is required; to neglect them once brings disaster. It is beneficial to the cuttings, when first inserted, to shade them additionally by shutters or lath shades placed over the canvas frame during the hottest part of the day. A week or ten days after insertion the extra shade may be dispensed with. K

### Paris.

The great horticultural spring exhibition, which for the last few years has been held under great tents in the Tuileries Garden, opened its doors to the public on the afternoon of May 18, after the President of the republic and ministers had paid it a visit in the morning of the same day. This exhibition is to the floral world what our annual "Salon" is to the painters and art amateurs. It is reputed to contain what is newest and what is thought most worthy to be brought before the public interested in horticulture. The exhibitors know that the most fashionable and select people will not fail to visit the show, and this explains the fact that so many florists, who otherwise seldom take part in exhibitions, send in their products.

The leading tent, about 300 feet long and 100 feet wide, in which are usually shown the finest specimens of rhododendrons, azaleas, palms, orchids and rare flowers, was this season too small to contain all the marvels of horticulture, and had to be enlarged. Unfortunately the unseasonable wet weather which prevailed during the whole month of May had no pity for the brilliant dresses of the ladies, which always seem to challenge the dazzling hues of the flowers on the opening day. On that day the lady tailors might easily find out what was best suited to the "blondes and brunes," and their visit to the exhibition cannot fail to inspire them in regard to fashions. The tent referred to with its many beds of plants coming from the different parts of the world was a real Eden, and this impression was rendered still more fairy-like by the establishment on the farther end of the tent of a most picturesque grotto, through which ran a streamlet winding its course around the flower beds.

Entering the tent, we gazed upon a bed of zonal pelargoniums, exhibited by Mr. Poirier, who secured a gold medal for it, and close by we found a still more dazzling bed of the same plants raised by Mr. Nonin, who won with it a medal of honor. Both beds included plants with very large trusses and such a brilliancy of color that it is difficult to look at them for some time without tiring the eyes. Among the finest sorts may be mentioned: Paul Crampel, of the most fiery red color which can be imagined; L. Behrens, Detaille, Mrs. Crozy, brilliant red; Mrs. French, Dr. Bonneloy, Mrs. A. Poirier, Jeanne Fleury, Pink Domino, rose, Jeanne Hardy, Mr. Viard, Mrs. Chase, Countess of Pot-salmon, Van Dael, cream colored, La Lorraine, purplish red, Carmen Sylvia, white, etc. The plants were shown in stripes and parallelograms made of one color instead of mixing all the colors, and the effect was wonderful.

On the right and left of Mr. Poirier's bed Messrs. Vilmoren & Co. showed two groups of annuals and biennials, usually increased by seeds, which regard to variety of form and color offered one of the greatest attractions. People who admired the beds did not realize the amount of skill and attention that is necessary to bring such a number of plants, including nearly their whole catalogue, into full

flower at a given date. The groups comprised such novelties as *Nasturtium Chameleon*, *Nemesia strumosa grandiflora*, *Gilia multicaule*, *Papaver orientale*, *Celsia beticæ-fofolia*, etc. For the annual and biennial flowers and its rich collection of vegetables this concern was awarded a medal of honor. A little farther along we came upon some fine beds of double cinerarias, calcularias, gloxinias, achimenes and streptocarpus, the latter plant showing a decided improvement as regards size and color. There were also exhibited various carnations, including the big variety *Le Colosse*, of which I have spoken in a former letter; single mammoth begonias, the bright scarlet *Begonia Lafayette*, *Hydrangea paniculata*, some specimens of which were trained like roses on stems six feet high; peonies, clematis, cannas, caladiums, crotons, anthuriums and magnificent orchids.

Moser, of Versailles, well deserved the grand prize, given by the President of the republic, for his lot of *Rhododendron ponticum* and azaleas, and Cronx had a display of the same plants, which was not much less creditable. For those interested in rhododendrons, we may mention the following attractive sorts: *Alarm*, white center bordered cherry red; *Comte Adrien de Germiny*, large truss of dark lilac; *Dhulep Sing*, distinct dark carmine; *Everestianum*, pale lilac rose, dark spotted; *Geranioides*, sweet pink, black spotted; *Isaac Davies*, distinct copper red; *John Walter*, splendid crimson; *Mme. Carvalho*, fine white bouquet; *Magnificum*, bluish lilac; *Old Port*, purplish lilac; *Purity*, creamy white. Simon, the cactus king, carried off a first prize with his large collection of phyllocacti, among which his two new kinds, *Etincelant* and *Aurore Boreale*, were particularly attractive. On the rockery by the grotto Mr. Vilmoren staged a collection, quite unique, of alpine plants which he has collected during his many travels in Switzerland, the Alps and Pyrenees, or procured in various other parts of the world. On the left side of the grotto was another most interesting collection of alpine plants, owned by Mr. Magne; they offered a delightful field for the botanist, who without taking the trouble of making long, tiresome trips, could contemplate the plants found on the highest mountains. Perhaps the most interesting plant of these groups was the little rhododendron, a native of the Alps, which gave rise to the huge plants exhibited opposite. Owing to the watery vapor which filled the atmosphere near the little cascade and fell in pearly particles upon the plants, these alpine plants kept as fresh as in their native haunts. It is a pity these plants are not more grown by people who can afford to have rockeries.

From the grotto two stairways led right and left to the floral decorations. I am sorry I cannot send you a photograph of the most creditable arrangements, as it is difficult to give a description of them. The first prize went to Mr. Debric, of the old firm of Lacharme, for some capital work. Among the most charming bouquets was one made up of white lilac, roses and *Asparagus Sprengerii*. Another was composed of white and blue clematis, rose hydrangeas, white lilac, a truss of *Salvia*, some lilies of the valley, andieries and an adiantum and pteris. Anthuriums set up with good sprays of adiantum and asparagus, were very showy. For dining table decorations, orchids were mostly used, each person having a small bouquet on his plate.

Tom as attracted a good deal of atten-

tion with a duplicate of the floral decorations which had been prepared last year for the reception of our President by the Czar and Czarina. The groundwork consisted of big La France roses set up in a basket having large handles or arches trimmed with very small pompon miniature roses and myosotis. Some conspicuous arrangements were also made with big Black Hamburg grapes intermixed with flowers and greenery. Other appropriate vase furnishing was secured with white lilac, white lilies, white arums, white gladioli and some adiantum and pteris leaves. Two interesting contests took place in the exhibition, one among professional florists and the other between amateurs. The dexterity and rapidity with which both classes composed the most informal, artistic and effective bouquets was wonderful. Among the amateur winners were: Miss de Germiny, Countess de Waldener, Countess Etienne d'Orves, Baroness de Bourgoing and Miss Th. de Vilmoren.

In the contest for plants recently introduced into Europe, Mr. Sander received a silver gilt medal for his *Acalypha Sanderi*, which attracted so much attention at Ghent. It is a very curious plant, with long, drooping flower spikes of a bright rose-madder color. A silver medal was awarded to the introducer of the *Cattleya speciosa nivea*, and thanks were voted to the exhibitor of *Zygopetalum Tenardi* and *Phaius Colsoni*. Other rare plants exhibited were *Salvia Alfred Ragueneau*, in flower, though only a few inches high, and of a fine scarlet color; *Begonia Alb. Crousse*, a mammoth double rose variety; *Cypripedium Lathamianum*, a hybrid of *C. Spicerianum* and *C. villosum*; *Agave Vandervinneri*; a hybrid of *A. Verschaffeltii*, with a flower spike over 10 feet high; *Lælia-Cattleya purpurata* Koezli, *Gardenia Fortunei*, *Heliconia illustris rubricaulis*, etc.

An innovation, which met with a good deal of favor was the establishment in one of the tents of an art gallery where the public could admire some pictures of our best flower and fruit painters, such as Kreyder, Thurner, Mme. Lemaire, Louise Ahbema, Bourgogne, Cesbron, Grivolos, Allouard, Cornellier, etc. PARISIAN.

### Chicago.

CHEAP FLOWERS AND CHEAP SALES PREDOMINATE. — WHOLESALERS REPORT SHIPPING TRADE AS EXCELLENT. — VAUGHAN, McKELLAR & WINTERSON'S BURGLAR. — DEATH OF MRS. J. W. POEHLMAN. — NOTES.

Local retail trade is comparatively quiet, a large proportion of all the flowers retailed in Chicago at present being sold in the department stores or by the street fakirs, and the prices they receive do not average enough to pay the grower for picking the flowers and sending them to market. Pansies have been sold on the streets in bunches of a dozen at 1 cent a bunch. Carnations, two dozen in a bunch, sell for 5 cents; roses and peonies bring 10 cents per dozen, and other flowers are proportionately low priced. At such prices where does the grower come in? The wholesaler gets his 15% commission and the fakir evidently makes a profit.

The wholesalers report business for the first half of June fully up to the average. Prices have been lower, but a much larger stock has been disposed of. The shipping trade has been good, especially on first-class roses and carnations. There has been fully 33% more flowers shipped this season than ever before and good stock suitable for shipping, particularly of

roses and carnations, is very scarce. Really good roses of any kind are not in market in any quantity. A week ago there was an abundance of stock of all kinds, much of it going to waste. The demand has gradually increased and at present all stock, except paeonies, which are now in the height of their season, is disposed of every day.

Vaughan, McKellar & Winterson's store was burglarized Friday night, June 10. Postage stamps, pocket knives and other things were taken to the value of about \$10. An attempt was made to blow open the safe, but Mr. Winterson, who happened to call at the store late that night, discovered the burglars and frightened them away.

John Ure has been ill with the gripe for several weeks at the home of his son in Rogers Park.

Wietor Brothers have succeeded to the business of the Rogers Park Floral Co. The change is in name only, as the Wietor Brothers have been for some time the only members of the firm.

Frederica Poehlman, wife of John W. Poehlman, died June 12. She left two small children, the oldest about three and a half years of age. Mr. Poehlman has the sympathy of many friends.

In the club bowling contest, June 10, E. F. Winterson made the highest score, 194, but J. S. Wilson's average of 155 was one point better than Mr. Winterson's.

The Gardeners' Friendly Club held its first meeting at Hull House June 13 and discussed the raising of vegetables. M. Harper read a paper on "How to Plant Seeds." The club is cultivating a farm on the Pingree plan.

Among the week's visitors was John C. Chase, representing Benj. Chase, of Derry, N. H., manufacturer of plant stakes and wood labels. J. T. A.

### Cincinnati.

**TRADE CONDITIONS SPEAK OF THE ADVENT OF SUMMER.—THE CINCINNATI CUT FLOWER COMPANY SUCCEEDS THE H. L. SUNDERBRUCH COMPANY.—TWO POPULAR TRADESMEN.**

The lassitude of the market speaks eloquently of the advent of summer. Social activity is at an end and the only business now in sight is an occasional commencement or June wedding. Stock is not of first-class quality, a condition which probably prevails to a more or less general extent throughout the country.

The event of the week has been the announcement of the succession of W. A. Mann and F. W. Ball to the business of the H. L. Sunderbruch Company, which they will continue under the title of the Cincinnati Cut Flower Co. When Harry L. Sunderbruch established this popular wholesale house, over ten years ago, he took Frank Ball from the retail store and made him shipping clerk. He has been identified with the concern ever since. Mr. Mann has been the accountant for more than six years and is therefore well up in the business. After the death of H. L. Sunderbruch his brother, Albert, supplied the capital to carry on the establishment under the management of Messrs. Mann and Ball. Mr. Sunderbruch now withdraws in their favor. Both gentlemen are widely known and are deservedly popular. They have always handled the cream of the trade and the best stock in this market and the success which has attended their efforts speaks for their ability. The Cincinnati Cut Flower Company undoubtedly has a prosperous future before it.

H. SCHWARZ.

### St. Louis.

**SATISFACTORY TRADE IN THE MISSOURI METROPOLIS.—STOCK POOR AND PRICES LOW.—THE FLORISTS' CLUB WILL PICNIC.**

Trade during the past week has held up very well considering the increasing warm weather; school commencements and graduating exercises have made the principal call for stock. Good blooms continue scarce, except in sweet peas, which have been in large over-supply, selling at from \$1 to \$2.50 per thousand. Lots of good stock changed hands at \$1 per thousand, and quantities must have been moved at a lower figure, the street men selling at 5 cents per bunch.

Carnations have also been received in quantities, showing, however, the effects of the warm weather. The price ranged from \$5 to \$10 per thousand. Quite a lot of smilax has been called for, selling from 10 cents to 15 cents per string. Roses have been in abundant supply, but of poor quality. The only scarcity has been in American Beauties, they sell readily at from \$1 to \$2 per dozen. Candidum lilies have been in short supply, and have been cleaned up as fast as they have been received, at from 8 cents to 10 cents per stalk. Quite a number of bedding plants seem to be left on hand from spring sales, and as the planting out season is about over it will probably be a loss to the growers. We hear of one enterprising man who expects to hold an auction to get rid of his surplus.

The last meeting of the Florists' Club was rather slimly attended and very little except routine business was transacted. A committee was appointed to make arrangements for our annual picnic. The grounds at Belleville and Crove Coeur Lake are under consideration with the chances of selection in favor of the latter.

R. F. T.

### Watertown, N. Y.

In as much as the time honored Begonia Rex has for some reason or other been relegated to a back seat, if not entirely discarded, by the commercial florists, it may be of interest to note that Greene & Underhill have the finest collection of these plants I have yet seen, there being over sixty distinct varieties. The collection of Begonia Rex has been a sort of hobby with Mr. Greene for the past few years, but unlike most hobbies, it has paid well. Besides wholesaling, they find a ready demand for these plants in the local market.

Spring business here was in no way disappointing, the sale of plants being fully up to expectation.

Greene & Underhill contemplate equipping a modern flower store and conservatory in the business center, but will retain their old stand.

HOMO.

### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a free-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—With reliable firm, by experienced florist, married. First-class credentials, medium salary. ROSES, care Am. Florist.

**SITUATION WANTED**—Englishman; age 28; married; no children; as foreman in good private or commercial place; 15 years' experience; first-class references. Address H A, care American Florist.

**SITUATION WANTED**—By successful rose grower. S who devoted all his life to especially to rose culture; competent to take entire charge commercial place. To suitable parties the greatest satisfaction assured. PRACTICAL ROSE GROWER. 42 Peoria St., Chicago.

**SITUATION WANTED**—August 1st by an all-around gardener, private or commercial place; carnations and mums a specialty. Can make any repairs pertaining to greenhouses, steam fitting, etc. Five years in last position; age 30. Address S D, care American Florist.

**SITUATION WANTED**—By young single man, general commercial place, 8 years' experience in all branches, but mostly roses, carnations, violets and mums. Best of references. Address, stating wages and particulars, LOYD H. WILKINSON, 302 North Milwaukee St., Jackson, Mich.

**SITUATION WANTED**—By thorough, practical gardener and florist, private or commercial; open for engagement July 1st; 25 years' experience with roses, carnations, violets, mums, palms, bulbs and landscaping; age 38, married, no children. State wages, please. Address GARDENER, Forest Home, Itasca, N. Y.

**WANTED AT ONCE**—An all-around good florist; single; \$20 per month with board. S. W. PIKE, 129 W. South St., Akron, O.

**WANTED**—An assistant grower to take charge when necessary. State experience and wages expected. Address W K, care Am. Florist.

**WANTED**—Steady, single man to take care of section of rose houses. Call in person ready for work. REINBERG BROS., 51 Wabash Ave., Chicago.

**WANTED**—One or more experienced travelers in wholesale seed trade. Address, giving experience on road and territory you wish to work. L. L. MAY & CO., St. Paul, Minn.

**WANTED**—A competent florist and gardener, as partner; have two places. Very little money required to take half interest in either one or both places. For further information address B B, care American Florist.

**WANTED**—An experienced propagator and planterman. One accustomed to hard and soft wood plants, where a great many are grown for a catalogue trade; must be a hustler; no drinking man wanted. Apply with references to JAMES SOUTDEN, Foreman for L. L. May & Co., St. Paul, Minn.

**FOR SALE**—10,000 feet 4-inch hot water pipe, two hot water boilers—almost new, and 30,000 square feet of glass. Call on or address DANIEL BRANCH, 3800 Grand Boulevard, Chicago.

**TO RENT**—Greenhouse 20x50, well stocked, large two-story potting house, new, in Newark, N. J. Address Box 104, Madison Square Branch, New York.

**FOR SALE**—First-class retail stand, about 5000 feet of glass; new. Has never paid less than \$100 per year net. Will require \$1000 cash, balance time at 6 per cent. Reason for selling, falling health. Address ILLINOIS, care American Florist.

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**FOR SALE**—Florist's place in one of the best cities in eastern Illinois. Three houses, 3700 feet glass, doing a good paying business; city water, telephone and located within three blocks of court house. No competition. Address H D, care Am. Florist.

**FOR SALE**—Greenhouse establishment and residence adjoining in a fine residence section of this city; convenient to business center, with which it is connected by electric cars. General plant and flower business; trade immense. Climate of climate necessary on account of health. J. H. CONKLIN, Joliet, Ill.

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Three greenhouses; 4 lots in fine shape in the city limits of the best mining town of America; must sell; have mining interests. Address 558 So. 1st St., Cripple Creek, Colo.

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Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots 35 ft. front; water, gas and electric light on street; greenhouses, office and barn all newly built with all conveniences; heated by steam. Centrally located in city of 15,000 population in State of Indiana. Competition one to speak of. Leading establishment in the city. Sickness cause of selling. Address INDIANA, care American Florist.

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DON'T FORGET THAT WE ARE STRICTLY IN IT ON SUPPLIES OF ALL KINDS, SEEDS, BULBS AND CUT FLOWERS.

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PACKED RIGHT,  
so they will reach you in just as good condition as they reach us.  
WIRE DESIGNS: A Full Line. Write us for our Illustrated Catalogue.

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CHICAGO, June 17.

Roses, Beauties.....per doz.	.75@2.50
" Brides.....	1.00@ 4.00
" Meteors, Kaiserlins.....	1.00@ 4.00
" Bridesmaids.....	1.00@ 4.00
" Gonters, Perles.....	1.00@ 3.00
Carnations, common.....	.40@ 1.10
" fancy.....	2.00@ 3.00
Marguerites.....	.50
Lilly Uratum.....	8.00
Harrisii, Callas.....	2.00@ 4.00
Lilly of the valley.....	1.50@ 4.00
Sweet peas.....	.25@ .50
Gladioli.....	4.00@ 6.00
Adiantum.....	.50@ 1.00
Smilax.....	10.00@12.00
Asparagus.....	40.00@75.00
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Peonies.....per dozen.	.25@ .50

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American Beauties, 2 1/2-in.	\$4.00	\$35.00
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Meteors..... 2 1/2-in.	2.50	22.50
" " 3 in.	3.50	30.00
Brides..... 2 1/2-in.	2.50	22.50
" " 3-in.	3.50	30.00
Bridesmaids..... 2 1/2 in.	2.50	20.00
" " 3-in.	3.50	30.00
Testout..... 2 1/2-in.	2.50	22.50
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NEW YORK, June 15.

Roses, Beauties, Hybrid4	2.00@16.00
" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	.50@ 2.00
Carnations	.30@ .50
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	1.00@1.50
Harrill	3.00@ 4.00
Smilax	8.00@10.00
Apparagus	40.00@50.00
Cattleyas	40.00@50.00
Paeonies	.50@ 2.00

BOSTON, June 15.

Roses, Beauties	5.00@15.00
" Morgans, Meteors	2.00@ 4.00
" Brides, Bridesmaids	1.00@ 5.00
Carnations	.25@ 1.00
Lily of the valley	2.00@ 3.00
Cornflowers	.50@ 1.00
Harrill	3.00@ 5.00
Sweet peas	.10@ .20
Smilax	12.00@15.00

PHILADELPHIA, June 15.

Roses, Beauties	1.00@ 20.00
" Jacqs	1.00@ 3.00
" Teas	2.00@ 6.00
Carnations	1.00
Paeonies	2.00@ 4.00
Lily of the valley	2.00@ 4.00
Harrill	4.00@ 6.00
Sweet peas	.45@ .75
Cattleyas	.35.00@50.00
Smilax	15.00@ 20.00

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Record Breaking Carnations  
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NEW YORK.**  
Cut Flower Exchange.

**Pelargoniums.**

ED. AM. FLORIST:—Will someone kindly give, through the columns of the AMERICAN FLORIST, the best directions for growing and propagating pelargoniums, and names of the best varieties? M. W. W.

The best time to propagate pelargoniums, that are wanted to make nice salable plants in 5 or 6-inch pots the following spring, is the latter part of August or early September. Choose well ripened wood and insert the cuttings singly in 2-inch pots; place in well ventilated house where they will have partial shade from the sun in the middle of the day; use a light porous soil without manure; give them a watering to settle the soil, after which they must be watered only when they absolutely need it. With a little care in this respect, they will root readily in a short time, and should then be placed in a well lighted house as near the glass as possible and given ample ventilation. When the plants are well rooted pot them firmly in 3-inch pots, using a rather stiff soil. Pelargoniums are slow growing plants in the fall and winter months, and will not stand forcing; a dry, even temperature of 45° at night, with ventilation on every favorable occasion, suits them to perfection. In January they will be ready for 5 or 6-inch pots, which is plenty large enough to grow a good market plant. Fumigate lightly and often, as they are subject to green fly.

With regard to the names of the best varieties, we are not up-to-date on the introductions of recent years, as they seem to be neglected by most of the florists of this country. It is difficult to tell why they are not grown more extensively, as they make a fine showing in Easter and spring sales when well done. While handling these plants for the London market the following were the best that came under our notice some years ago: Madame Thibant, white fringed petals; Venus, white; Duchess of Bedford, white; Gold Mine, scarlet; Maid of Kent and The Czar. We are unable to state whether these are handled by growers in this country.

C. W. JOHNSON.

DECATUR, ILLS.—W. H. Gullett & Son were victimized by a young man who rented a dozen palms in the name of one of Gullett's good customers, peddled the plants about town and never came back.

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" " medium.....	8 00@10.00
" Brides, Bridesmaids.....	2 00@ 3.00
" Meteors.....	3.00@ 4.00
" Perles.....	2.00@ 3.00
Carnations.....	.75
" fancy.....	1 00
" .25	
Marguerites, Sweet peas.....	3.00
Lily of the valley.....	3 00
(Gladolus.....	30.00@12.50
Smilax.....	1 00
Adiantum.....	50.00
Asparagus.....	

ST. LOUIS, June 16.

Roses, Beauties.....	2 00@20 00
" Meteors.....	2 00@ 5 00
" Brides, Bridesmaids.....	2 00@ 5 00
" Perles.....	2 00@ 3 00
" Meteor.....	2 00@ 8 00
Carnations.....	.75@ 1 00
" .35	
" double.....	.35
Violets, California.....	2 00@ 3 00
" .35	
Lily of the valley.....	2 00@ 6 00
Harrist.....	5 00@ 6 00
Callas.....	15 00
Smilax.....	

MILWAUKEE, June 16.

Roses, Beauties.....	5 00@20.00
" Brides, Bridesmaids.....	2 00@ 4 00
" Perles.....	1 00@ 3 00
" Meteors.....	2 00@ 4 00
Carnations.....	.75@ 1 00
" .35	
Lily of the Valley.....	2 00@ 3 00
Peonies.....	2 00@ 3 00
Marguerites, yell jw.....	.25@ .75
Smilax.....	12 50@15.00
Adiantum.....	.50@ 1 00
Asparagus.....	50.00

BUFFALO, June 16.

Roses, Beauties.....	10.00@40 00
" Brides, Bridesmaids.....	3 00@ 6 00
" Meteors.....	3 00@ 6 00
" Perles.....	2 00@ 4 00
" Kalerina.....	3 00@ 6 00
Carnations, white and colored.....	1 00@ 2 00
" fancy.....	2 00@ 2 50
" .40	
Lily of the Valley.....	4 00
Harrist.....	6 00@10.00
Sweet peas.....	.35@ .50
Smilax.....	12 50@15.00
Adiantum.....	1 00@ 1.25
Asparagus.....	50.00@75.00

LOUISVILLE, June 16.

Roses, Beauties per dozen.....	1.00@2 00
" Brides, Bridesmaids.....	3 00@ 4 00
" Meteors.....	3 40@ 4 00
" Perles.....	5 00@ 6 00
" Meteor.....	2 00@ 3 00
Carnations, fancy.....	2 00@ 3 00
" common.....	1 00@ 2 00
" .25@ .50	
Lily of the Valley.....	1 00@ 2 00
Callas, per dozen.....	.75@ 1 00
Sweet peas.....	.75
Marguerites.....	.50
Smilax, per dozen.....	1.25@ 2 00
Adiantum.....	.75
Asparagus, per string.....	.60

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THE American Retail Nurserymen's Protective Association was in session June 9 at Omaha and re-elected its former officers, as follows: President, J. W. Hill, Des Moines, Iowa; vice-president, F. H. Stannard, Ottawa, Kans.; secretary-treasurer, E. M. Sherman, Charles City, Iowa.

**Nurserymen's Committees.**

A. L. Brooke, president of the American Association of Nurserymen, who, by the way, is a member of the Kansas legislature, has appointed the following important standing committees:

Transportation: A. L. Brooke, ex-officio chairman; William Pitkin, of Rochester, N. Y.; Peter Youngers, of Geneva, Neb.; W. J. Peters, of Troy, O., and R. C. Berckmans of Augusta, Ga.

Legislation: C. L. Watrous, of Des Moines, Ia.; N. H. Albaugh, of Tadmore, O.; Silas Wilson, of Atlantic, Ia.; and T. B. Meehan, of Philadelphia, Pa.

Tariff: Irving Rouse, of Rochester, N. Y.; J. J. Harrison, of Painesville, O., and N. W. Hale, of Knoxville, Tenn.

**Park and Outdoor Art Association.**

Secretary Warren H. Manning has issued a circular giving routes and rates to the convention at Minneapolis June 22, 23 and 24. From Boston the party goes via the Fitchburg R. R. joining the New York delegation which reaches Albany via the West Shore, which is pursued to Buffalo where the party takes the Wabash R. R. for Detroit and Chicago. From Chicago to Minneapolis the North-Western road will be employed. The rate from Boston will be \$24 with a rebate at Minneapolis of \$7.50; the net return fare will also be \$16.50. Virtually the same rate will prevail from New York. The sleeping car charge is \$7.50 each way. The party will leave Boston at 9:30 a. m. June 20, New York, 12:45 p. m., June 20; Chicago, 6:30 p. m., June 21.

**Cleveland.**

SUMMER DULLNESS AT THE OHIO CITY.—SULTRY WEATHER AFFECTS STOCK.—DROUGHT IS BROKEN.—FLOWERS, QUALITIES AND PRICES.

Business is rapidly dropping to the summer level, although there are still a few people yet to be married this month. The sultry weather of the past week had its usual effect on the supply of stock and still further deteriorated the quality of roses. What good stock was offered usually sold, but there were many poor ones that could not be disposed of. The price of standard sorts ran from \$1 to \$3 per 100, according to quality. American Beauties are of fairly good quality. They are bringing \$1 per dozen when they have stems of fair length. Carnations have been in over supply owing to the heat. They have been offered in enormous quantities and have often been refused, although offered in some cases at 20 cents and 10 cents per 100. Sweet peas, with some growers, are about at an end, being poor in flower and short of stem. A few sweet peas are now to be seen outdoors. Peonies, white and red, are about over. Pink ones of late varieties are plentiful

in fact too much so, some having been retailed at 25 cents per dozen.

At the time of this writing we are having abundant rains, so that the threatened drought is averted.

Bedding stock has sold about as in former years, and at about the same prices. Some dealers report being sold out while others have more or less stock on hand.

**Buffalo.**

SWEET GIRL GRADUATES RECEIVE MANY FLOWERS.—CARNATIONS ARE IN OVER-SUPPLY.—OUTDOOR STOCK SCARCE.—SUMMER OUTINGS.—VISITORS.

Trade the past week has been rather brisk, the commencements of two of our young ladies' colleges calling for American Beauties by the hundreds. Beauties were of good quality, but roses of other varieties are beginning to show the effects of warm weather. Carnations can be had in quantities this week at almost your own price. Outdoor flowers are not very plentiful and only a few tiger lilies, pyrethrums and peonies can be had.

The retail florist is thinking where he can go for a vacation and not have to buy some summer resort in order to remain there. W. F. Kasting can be seen almost any evening driving around the park in a pneumatic tired buggy behind a fine horse, and is envied by others who only pedal along on bicycles. S. A. Anderson has taken up his summer residence on the Canadian side with the Buffalo Canoe Club, of which he is a member.

Harry Balsley is here at present talking flower pots, and looks well. Martin Reukant, of H. Bayersdorfer & Co., called on the trade the past week. Will Siebrecht and bride, of New Rochelle, called on D. B. Long and W. F. Kasting this week on their way to Niagara Falls. Other recent visitors to Buffalo were Fred B. and Fred G. Lewis, Lockport; Mr. Wheeler, of Red Rock, Pa.; G. L. Graham, of Bradford, Pa.

KANSAS CITY, Mo.—Olivia Thompson has filed application for a mandamus to restrain John Schneider, florist, from removing or destroying stock or fixtures at 1013 and 1015 Walnut street.

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Primula obconica, pkt., 100 seeds, 35c.  
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- 5,000 Hemlock Spruce, 1 to 4 feet.
- 10,000 Norway Spruce, 3 to 8 feet.
- 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
- 5,000 Irish Junipers, 1 to 2 1/2 feet.
- 10,000 Pines, Austrian, Scotch, Excelsa, White and dwarf varieties, all sizes.
- 1,000 Eucynous Japonica, 18 to 36 inches.
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- 1,000 English Holly, 1 to 4 feet.
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- 3,000 English Ivy, strong plants.

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  - PANSY—German, trade pkt. 25c; double pkt. 40c, or 14 oz 50c; 1 oz \$2.00.
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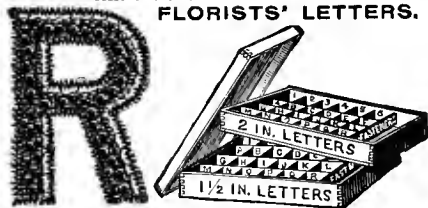


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EVERETT B. CLARK, Pres.; F. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Secy and Treas.

S. Y. HAINES is at the Mt. Clemens, Mich., health resort.

TRADE for latter half of May and for June to date is generally slower than last year.

WILLIAM LANDRETH, of the Philadelphia seed firm of Landreth & Son, and Mrs. Landreth have engaged a suite at Haddon Hall, Atlantic City, N. J., for a prolonged summer holiday.

INDEPENDENCE, Mo.—The Duvall Seed and Grain Company has been licensed to incorporate with a capital of \$208,000. The incorporators are W. C. Adams, J. D. Wood and M. R. Roberts.

RECENT NEW YORK VISITORS.—Messrs. Langbridge and Rice, of Cambridge, N. Y.; Willard, of Wethersfield, Conn.; Clark, of Milford, Conn., and Kendall of Cleveland, O., all bound for Old Point Comfort

PARIS.—The whole month of May has been wet and unseasonable and some crops begin to resent it. Celery Paris Golden Yellow and White Plume, turnip Purple Top, Milan and White Milan, and Purple Cape Broccoli will be again short this season.

RUSSIA will hold an international horticultural exposition at St. Petersburg in 1899. It will be under the patronage of the Czar and every effort will be made to make it a notable one. The display of flowers and plants will open May 17, 1899, and continue ten days. In the fall an exhibition of fruits will be given.

EVERETT B. CLARK, of Milford, Conn., the newly elected president of the American Seed Trade Association, is one of the best known of American seed growers; one whose stocks have become known standards for reliability and purity. No better qualified man could be found to represent American growers as the head of this association.

American Seed Trade Association.

The sixteenth annual meeting of the American Seed Trade Association was held this week at Old Point Comfort, Va., beginning Tuesday morning. The following officers were elected for the ensuing year: Everett B. Clark, Milford, Conn., president; F. Bolgiano, Baltimore, first vice-president; Albert McCullough, Cincinnati, second vice-president; S. F. Willard, Wethersfield, Conn., secretary and treasurer; A. N. Clark, Milford, Conn., assistant secretary. Papers were read as follows: "Southern Forage Plants and their Adaptability for Planting in the North and West," by Henry W. Wood, Richmond, Va.; "The Seedsmen's Aim should be to Excel Rather than Under-sell," "Quality vs. Quantity," by W. Albee Burpee, Philadelphia, Pa.; "Our Place at the Paris Exhibition," by C. L. Allen, Floral Park, N. Y.; "Honesty of Representation," by Everett B. Clark, Milford, Conn. The classification of garden seeds and freight rates were discussed at some length, and Albert McCullough gave a timely and interesting discourse on seed legislation.

TO THE TRADE!

WHEN closing December last my arrangements with the Joseph Breck & Sons Corporation to expire on May 31st., 1898, I organized the Braslan Seed Growers Co. to act as selling agents for leading seed growers of the United States and Europe.

While by my agreement then made I do control all mail addressed to that firm at Chicago, whether in my name as manager, or to Joseph Breck & Sons Corporation, yet the Braslan Seed Growers Co. have neither purchased nor taken on sale any surplus or carried-over seed stocks of the said corporation in storage, nor do we act for them in any way.

The liberal patronage extended to me while interested in that corporation I gratefully acknowledge and appreciate.

I shall in the future manage the new company as selling agents for reliable seed growers of all lines of vegetable and flower seeds. Orders will be invoiced by and shipped to you direct from the producers. Your requirements when placed with us secure to you fresh new crop seeds at practically growers' contract prices.

We solicit a continuance of your esteemed patronage.

CHARLES P. BRASLAN

FOR BRASLAN SEED GROWERS CO

Offices: Chicago: 18 N. Clark St. San Francisco: 419-421 Sansome St.

Mail or telegrams addressed to either office will receive prompt attention.



RAFFIA BEST QUALITY. LONG MADAGASCAR

Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts.

In bale lots (about 225 lbs.) at 8c 100 lbs. or over at..... 9c 50 lbs. or over at..... 10c 25 lbs. or over at..... 11c 10 lbs. or over at..... 12c Less than 10 lbs. at 15c per lb., f. o. b. Phila.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

Grafting Wax

Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 20c; 1/4 lb. bars at 21c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut Streets, Philadelphia, Pa.

G. C. Watson, Seedsman.

NOTICE...

Mr. Charles P. Braslan's connection with us ceased with the close of business May 31st. We beg to inform the trade generally, that we have no connection with Mr. Braslan, or the Braslan Seed Growers Co., and are not responsible for any of his or its acts.

Orders requiring prompt attention should be addressed to Mr. A. J. M. Joiner, our manager in Chicago, at 12 N. Clark St. All other letters pertaining to our past or present business in Chicago, and all remittances, should be mailed to our Boston office.

JOSEPH BRECK & SONS, (CORPORATION)

Per Charles H. Breck, Treas.

Boston, June 1st, 1898.

Seed Stores and Flower Stores..

can profitably handle our ODORLESS PLANT FOOD. Write for testimonial leaflet and free sample. 100 per cent. profit guaranteed.....

We furnish Pure Bone Meal for florists' use. Guaranteed analysis... Ammonia..... 5 per cent. Bone Phos..... 55 per cent. Write for sample and prices.....

THE WALKER FERTILIZER CO.

Clifton Springs, N. Y.

X PANSY X SEED

The finest of all the Giant Flowering varieties to be had. No better grown; carefully selected; very large flowers of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkg. of 20 seeds \$1.00; half pkg. 50c. A pkg. New Forget Me Not, "Jewet," with every order.

JOHN F. RUPP, Shiremonstown, Pa.

"BEST OF ALL" TOMATO (FOR FORCING)

"ENGLISH" MELONS (FOR FORCING)

FLOWER SEEDS FOR FLORISTS

Catalogues on application.

WEBER & DON, Seed Merchants and Growers.

111 Chambers St., NEW YORK, N. Y.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

COLD STORAGE VALLEY ALWAYS ON HAND.

CASES of 2500 pips, extra quality, \$25.00; per 1000, \$12.00 CASES of 3000 pips, good quality, \$25.00; per 1000, \$10.00

GLUCAS & BODDINGTON CO., 501 & 503 West 13th St., NEW YORK CITY.

BAGS COTTON SEAMLESS, BURLAPS, ETC.

SECOND HAND BAGS BOUGHT AND SOLD. CINCINNATI BAG CO. Second and Walnut Sts., CINCINNATI, O.

The Only Machine

on the market for automatically filling and sealing seed packets.

The Brown Bag-Filling Machine Co. FITCHBURG, MASS., U. S. A.

# NOW READY!

FULLY  
REVISED TO  
DATE

The \_\_\_\_\_  
American Florist  
Company's

## DIRECTORY

WITH  
UPWARDS  
OF

**3,000**  
**NEW**  
**NAMES**

OF

Florists, Nurserymen  Seedsmen

OF THE

UNITED STATES AND CANADA AR-  
RANGED BOTH BY STATES AND  
POST OFFICES AND ALL NAMES

**ALPHABETICALLY**

PRICE TWO DOLLARS.  
IN FLEXIBLE LEATHER BINDING, THREE DOLLARS.



American Florist Company,

324 DEARBORN STREET,  
CHICAGO, ILL., U. S. A.

Los Angeles, Cal.

DULL TRADE FOLLOWS MEMORIAL DAY ACTIVITY.—CHANGES AT THE INGLESIDE NURSERIES.—RAFFERTY'S FREESIAS.—JOTTINGS OF PERSONS AND PLANTS.

Memorial Day was more generally observed in this city than for a number of years past; florists were liberally patronized and in return presented to representatives of patriotic bodies nearly all flowers remaining after the orders were filled. Since Memorial Day trade has been very dull and the prospects for the summer season are not at all encouraging.

Several changes have taken place at the Ingleside Nurseries. J. A. Kusche, who has been in charge of the greenhouses and gardens for nearly two years, has resigned. He contemplates entering business for himself, either in this city or in Santa Barbara. His position is now filled by Thomas Comstock, who recently arrived from Missouri. Miss Allen, the efficient stenographer and book-keeper at the Spring street store has given up her position and in a few days will leave for Salt Lake City to reside. Capt. F. Edward Gray, the proprietor, is announced as a candidate for the republican nomination for county assessor, a position he has held before.

Fred Rafferty, the leading florist at Santa Ana, has been selected as one of the park commissioners of that city. He reports a heavy demand for bulbous stock. His entire crop of freesias is sold and he requires more to complete filling his orders.

Since the destruction by fire of the big Raymond Hotel, at South Pasadena, nearly three years ago, the greenhouses and grounds have been somewhat neglected but now additional greenhouses are being built, one for roses 24x100 feet, and a large propagating house. R. Leithead, who is in charge of this establishment, hopes to soon see a new hotel built.

Otto Saake, who has been employed by J. A. Summers, of the Central Park Floral Co., has resigned and will investigate the culture of tobacco in this vicinity. It is said to be a profitable crop in some parts of San Diego county and Mr. Saake hopes to succeed with it.

E. H. Rust, of the Park Nursery Co., Pasadena, has returned from the east and is now attending to his duties as horticultural commissioner.

Henry Ebert, gardener at the Hollenbeck Home, has gone to serve his country in the Philippines.

The conservatories in East Los Angeles Park are attracting many visitors. A display of a house full of gloxinias in full bloom is the principal drawing card, but a collection of Japanese irises grown outside under lath shade, is greatly admired.

D. R. W.

Bougainvilleas

Glabra & Glabra... Fresh & continuous bloomers for 4 to 6 months from Jan to July. The bracts bloomers are extremely durable on plants or in cut spray. A small stock of plants will form a profitable investment for any florist for decorative material. We mail 7 plants for \$1.00. Per doz. \$7.00.

Extra strong plants from 2 1/2 in. pots \$1.00 4 in. 2.00 6 in. 3.00 Extra strong plants from 4 in. pots 4.00 5.00 Cash with order THEO. S. BECKERT, Glenfield, Pa., 5 miles below Pittsburg

CYCAS

REVOLUTA. The true, long-leaved... Freshly imported... Run from 6 to 9 inches in length and weigh from 10 to 15 lbs. Now the price 10c per lb. \$8 per 100 lbs., \$75 per 1000 lbs. (100 lbs. at 100 rate) 500 lbs. at 100 rate. Special price on larger quantities.

UNITED STATES EXOTIC NURSERIES (Formerly Pitche & Manda) SHORT HILLS, N. J. Wholesale Catalogue Free. Loan on application

PALM Seed. FRESH ON HAND LATANIA BORBONICA... ARECA LUTESCENS... ASPARAGUS PLUMOSUS NANUS... PHOENIX RUPICOLA... RECLINATA...

J. L. SCHILLER, 404 East 34th Street, NEW YORK CITY.

Good Stock! Low Prices!

CANNAS Strong plants of Alphonse Bonvier, Chas. Henderson, Egandale, Paul Marquant, Wm. Elliott Bisson, Sec. Stewart, Flamboyant, \$4.00 per 100; \$35.00 per 1000.

COLEUS Crimson Verschaffeltii, Golden Queen and Golden Bedder, \$2.00 per 100; \$18.00 per 1000.

Geraniums Double Gen. Grant and S. A. Nutt, 2 1/2-inch pots, \$3.00 per 100; \$28.00 per 1000; extra good, 4-inch pots, \$7.00 per 100; \$65.00 per 1000. Cobæa Scandens, 4-inch pots, \$6.00 per 100.

JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y.

Orchids..

We have still on hand a limited quantity of following importation: Cattleya labiata, C. Mossie, C. Lælia purpurata and Miltonia Candida.

LAGER & HURRELL, - Summit, N. J.

Asparagus Sprengerii Seedlings \$5.00 per 100. Cash with order. American Rose Co., Washington, D. C.

Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC. RUDOLPH VAN TIL & CO., Hillegom, Holland.

American Representative L. C. BOBBINK, Rutherford, N. J. ASK FOR CATALOGUE. Mention American Florist.

Asparagus P. Nanus (true)

JUST THE THING FOR FERN DISHES. 10,000 Plants. Per hundred, \$2.50, or \$20.00 per thousand.

Cash with order from parties unknown to me LOUIS ULLRICH, Tiffin, Ohio. Wholesale Grower of Cut Flowers.

E. G. HILL & CO.,

RICHMOND, INDIANA. Cycas Revoluta Stems

Plants of sizes 3 to 6 lbs each. Plants, per lb.

Let the advertiser know that you take the Florist. Then he'll know how he came to get your order.

TUBEROSES BARGAIN OFFER

To close out we offer well kept, sound bulbs as below. It should pay well to flower this stock for early fall cut flower trade.

Per 1000 First Size Pearl.....\$6.75 Medium Pearl..... 2.75

Vaughan's Seed Store, CHICAGO: 84-86 Randolph St. NEW YORK: 14 Barclay St.....

Crotons... IN VARIETY

Rothschild, Hawkeri, Interruptum, Evansianum, Rubra Lineata, Andreanum, Aurea Maculatum and others, suitable for bedding. Fine plants in 3-inch pots, \$2.00 per doz. New and rare varieties, 50 cents each. Aurea Maculatum, extra fine plants in 4-in. pots, \$2.50 per doz.; \$15 per 100; 3-inch pot plants, \$2 per doz.; \$12 per 100; thumb pots, \$1 per doz.; \$6 per 100.

Edwin Lonsdale, Florist, CHESTNUT HILL, PHILA., PA. Money Order Office, Station H, Phila.

FINE PALMS

ARECA LUTESCENS 3 plants, 5-in. pot 18 to 20-in. high, per 100, \$40.00 3 plants, 10-in. pot, 18 to 50-in. high, each... 4.00 1 plant, 2 in. pot, 8 to 12-in. high, per 100, 5.00

COCOS WEDDELIANA 1 plant, 4-in. pot, 15 to 18-in. high, each... \$ .50 1 plant, 5-in. pot, 21-in. high, each... .75 1 plant, 5-in. pot, 30-in. high, each... 1.00

KENTIA BELMOREANA 2 1/2-in., 3 leaves, 10 to 12-in. high, per 100... \$20.00 3 in., 4 or 5 leaves, 15 to 18-in. high, per 100... 25.00 5-in., 4 to 6 leaves, 20 to 21-in. high, each... 1.00 All measurements from top of pot.

JOSEPH HEACOCK, WYNCOTE, PHILA., PA. Mention American Florist when writing.

Good Stock to Fill Benches Now.

JOHN H. LEY, Good Hope, Wash ngton, D. C

All clean, well-grown plants to shift on at once. Areca Lutescens, 4 inch pots, 2 ft. thick \$3.00 doz. Orodova Regum, 5 in., 3 in a pot, 4 feet 9.00 (Royal Palm, very elegant.) Latania Borbonica, 4 in. thick, 2.00 Pandanus 1 till 4 in. thick, 2.00 Adiantum Regium, 6 in., fine for cutting 5.00 Rhodophyllum, 6 in., 5.00 Nephrolepis D. furcans, 5 in., ex. strong, 3.00 Rose Mue, Planter 5 in., extra strong, 1.50 Crotons, 6 finest sorts, top cuttings, 2-in., \$1.00 100 Ferns from this, 8 sorts, mailed, for \$1.25; \$10 per 1000. 100 Citrus Otahaitensis, rooted cuttings, mailed, for \$1.25. Well packed - Cash with order. Plants extra.

Rose Hill Nurseries

LARGEST Growers of Palms, Orchids, Shrub and Greenhouse plants, Ferns, Aromaticus, Pandanus.....

SIEBRECHT & SON, New Rochelle, N. Y. New York Office, 409 Fifth Ave.

# New Frilled, Tuberos Rooted... BEGONIA

We can still supply a limited stock of the most unique form, with very large single flowers which are entirely distinct from anything heretofore offered, the petals being wavy and beautifully frilled on the edges, similar to the newer forms of Petunias. The illustration gives a very good idea of its general appearance. A decided acquisition and created a sensation at the European exhibitions last year. Strong bulbs, 30c each; \$3 per 100.

We are now looking orders for our SUPERB STRAINS of Calceolaria, Cineraria, Cyclamen, Pansy, Primula, etc., etc. New Crops will be here shortly—for varieties and prices see our current wholesale catalogue.



**HENRY A. DREER,** 714 Chestnut Street\*  
PHILADELPHIA, PA.

## ASPARAGUS SPRENGERII

From 2-inch pots, good stuff, per 100, \$5.00.....

- Cycas Revoluta*, dormant stems, size from 3 to 10 lb. @ 12c per lb.
- Clothilde Souper*, the great pot rose, our stock is A No. 1, 2-in. @ \$3.00; 2½-in. @ \$4.00; 3-in. @ \$6.00; 3½-in. @ \$9.00 per 100.
- Pelargoniums Mme. Thibaut*, Mrs. Robt. Sandiford, Edward Perkins and Dorothy, strong 3-inch stock, per doz., \$1.50; per 100, \$12.00.

## CANNAS

- Plants from 2½ and 3-inch pots @ \$4.00 per 100.
- Alphonse Bouvier, Austria, Italia, Discolor, Exp. Crampel, J. De Cubos, J. W. Elliott, Mrs. J. M. Samuels, Midway, Madame Crozy, Paul Marquant, P. J. Berekmans, Sophie Buckner, Stella Kanst, Star of '91, F. R. Pierson, Madagascar, Mrs. F. L. Ames, Mme. A. Bouvier, Octave Mirabeau.
- Cuba Libre, Egandale, Florence Vaughan, Etendard, Pillar of Fire and Papa @ \$5.00 per 100.
- Leonard Vaughan.....@ per 100, \$12.00
- Mlle. Berat.....@ per 100, 12.00
- Yellow Crozy.....@ per 100, 20.00

## FORCING ROSES

We have a fine stock of Brides, Bridesmaids, Perles, Meteors, Goutiers, American Beauties, Kaiserin Augusta Victoria, Pres. Carnot and Mrs. Robt. Garrett from 2½ and 3½-inch pots.

Send us your list to price.

## VAUGHAN'S SEED STORE

Greenhouses: CHICAGO:  
Western Springs, Ill. 84-86 Randolph St.

## BULBS For FLORISTS., For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, - HOLLAND.

**Azaleas** THE FINEST STOCK IN THE WORLD

**Palms SANDER,**

**Bay Trees** BRUGES, BELGIUM.

AGENT: **A. DIMMOCK,**  
60 Ve t., NEW YORK.

# JUST ARRIVED

A LARGE SHIPMENT OF

## Sweet Bay Trees

(*Laurus Nobilis*)

In Standard and Pyramidal Form.  
Ask for price list.

## L. C. BOBBINK

Branch of the Horticultural Co.,

Rutherford, N. J.



## ASPARAGUS

50,000 plants in 2½-inch pots, \$5.00 per 100. Express: 24 for \$1.50 by mail. . . .  
Specimens for 8-inch pots, \$6 per 12.

## A. BLANC & CO. SPRENGERI.

PHILADELPHIA.

## PALMS and FERNS

The Largest Stock of PLANTS IN THE WEST

**GEO. Wittbold**  
1708 N. HALSTED ST.  
CHICAGO

## The Finest Winter Flowering Plant of the Century Begonia Gloire de Lorraine

THIS fine variety keeps up a succession of bright rosy pink blossoms throughout the Winter, and is invaluable for florists' work. H. B. May, who was the first to bring this striking novelty into popularity, holds the finest stock in the world. Orders for export carefully packed.

H. B. MAY,

Oyson's Lane Nurseries, Upper Edmonton, London.

Rose and Carnation Houses.

ED. AM. FLORIST:—Some reader of the AMERICAN FLORIST would oblige by answering the following: 1. What is most economical for three-fourths-span rose or carnation house, east and west, that is to be constructed for solid beds? There will be four houses and each house is to accommodate one bench of pot plants. Would prefer a house of three benches, always two solid and one raised. The local conditions are such that we can build the best solid beds cheaper than plank benches. By using one raised bench for pots we avoid the difficulty of constructing the third or high solid bed. Walks should be all around the sides of the house, giving them three beds and four walks. 2. How much space is absolutely necessary between such houses, on ground sloping at a rate of one foot in fifty feet, to prevent one house from shading the other? What is the necessary elevation of the solid beds? MINNESOTA.

As submitted, there must be something left out of the question, as there is nothing to signify what the word "economical" refers to, whether to the construction, arrangement or the heating of the house. To answer briefly: In forcing houses it is desirable to have from 24 to 30 inches of glass in the south wall, set either in permanent sash or in hinged ventilators. The wall itself may be constructed with cedar posts set four feet apart and sheathed and sided up to the sill beneath the glass, or a grout wall may be used beneath the glass. The north wall requires no glass. It is advisable to have a walk along the south wall, but a raised bench may be placed against the north wall. For carnations the south bed should be raised about two feet, but for roses one foot will be ample. The other beds should be about one foot higher than the bed to the south, and the ground should be graded so that the beds will not be too high for convenience in caring for them. Three feet from the walk to the top of the soil will be fully as high as desirable for any of the beds. Hot water will, as a rule, be found most satisfactory in small establishments, but steam plants are less expensive to put in. All of the pipes may be placed upon the walls, or the mains may be carried on the purlin posts a foot or so below the glass, with two returns beneath the soil on each of the solid beds to give bottom heat. 2. The farther the houses are apart the better so far as the growth of the plants is concerned, but a distance of eight feet will give good results. It also permits of driving between the houses, which facilitates the handling of the soil. If necessary, a smaller distance may be used, and fair results will be obtained with six or even four feet, especially if the ground can be so graded as to bring the north house two feet higher than the south one.

L. R. TAFT.

POLO, ILLS.—M. E. Miller has found a new way to increase trade. He is giving flower shows in the surrounding towns, usually under the auspices of some patriotic society which receives a share of the proceeds of sales and sends the money to the soldiers representing the town in the camps in the south.

BALTIMORE, MD.—William Grilth and Harry V. Casey have been employed by Robert S. Corse, superintendent of Patterson park, to lay out eight large ornamental beds.

YOUNG ROSES PLANTS

	From 2 1/2-inch Pots.	Per 100	Per 1000
AMERICAN BEAUTIES .....		\$4.00	\$35.00
BRIDES.....		2.50	20.00
BRIDESMAID.....		2.50	20.00
METEOR.....		2.50	20.00
PERLE.....		2.50	20.00

TERMS CASH WITH ORDER.

J. A. BUDLONG, 37-39 Randolph Street, CHICAGO, ILL.

ROSE PLANTS AS GOOD AS CAN BE GROWN

We have the following Rose Plants, the same stock as we have planted in our own houses, still on hand and for sale. We guarantee them to be first-class in every respect.

7000 Am. Beauties.....	2 1/2-in. pots.....	\$5.00
600 Kaiserin.....	3 " .....	5.00
600 " .....	2 1/2 " .....	3.00
4000 Bridesmaids.....	2 1/2 " .....	2.50

FIRST COME—FIRST SERVED.

BASSETT & WASHBURN, Hinsdale, Ill.

40,000 FIRST QUALITY FORGING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON	LA FRANCE	AMERICAN BEAUTY	PRESIDENT CARNOT
METEOR	KAISERIN	SUNSET	BON SILENE
PERLE	GONTIER	TIME HOSTE	NIPHEOS
BRIDESMAID	BELLE SIEBRECHT.	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Rose Plants...

Fine Bride, Bridesmaid, Perle, Sunset and Meteor.  
2 1/2-inch Rose pots..... \$3.00 per 100.  
3-inch pots, standard..... 5.00 per 100.

W. J. & M. S. Vesey, FORT WAYNE, IND.

**AMERICAN BEAUTY**  
Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100, \$70.00 per 1000.  
**EDWIN LONSDALE,**  
Wyndmoor, Chestnut Hill,  
Cash with order PHILADELPHIA, PA.  
Money order Office, Station 11, Phila

ROSES HANDY FOR WESTERN GROWERS

Beauties, Brides, Maids, Meteors, Woottons and Perles, 2 1/2, 3 and 4-in. Strong, clean, healthy stock, cheap for cash, to clean up. If you want good stuff at prices to suit write us for prices at once. Address...

J. N. KIDD, Florist, St. Joseph, Mo.

ROSES! ROSES!

Brides, Perle, Wootton, Maids, Kaiserin and Meteor  
2 1/2 in. \$3.00 per 100, \$25.00 per 1000  
Brides, Wootton and Meteor, from 3-in., \$5.00 per 100, \$45.00 per 1000  
500, 1000 and 500 at 1000 rates. Cash with order.  
**ROBERT F. TESSON,**  
West Forest Park, - St. Louis, Mo.

ROSES..

	2-in. per 100	3-in. per 100
Am. Beauties ..		\$5.00
Perle .....	\$2.75	4.50
Bridesmaid ...	2.75	4.50

MAPLEWOOD CUT FLOWER and PLANT CO. PLEASANT HILL, MO.

Memorial Rose

(Rosa Wichuriana)  
Strong field-grown plants,  
\$50, \$75 and \$100 per 1000

SAM'L C. MOON, MORRISVILLE, Bucks Co., PA.

FINE ROSE STOCK

FOR PLANTING, Out of 3-inch pots.

METEORS, VICTORIA KAISERIN, MAIDS, BRIDES, BELLE SIEBRECHT, PERLES AND BEAUTIES.  
Write for prices. Send 50c. or \$1.00 for sample lot of what you want to

GEO. A. KUHL, PEKIN, ILL.

Chrysanthemums!

New and standard varieties. Extra fine plants from 2-inch pots. Send for price list. Discount on large orders.

H. WEBER & SONS, Oakland, Md.

You can do more than Pay Your Rent by Advertising your Surplus Stock in The American Florist.



# Grafted Roses

American Beauty, Carnot, and Testout from 4-inch pots, in extra fine shape @ \$15.00 per 100.

Bridesmaid, extra fine, 3-inch pots @ \$15 per 100; \$125.00 per 1000.

Also the following varieties, not grafted,

but strong vigorous stock, American Beauty, 3-inch @ \$10.00 per 100; \$80.00 per 1000. **Bride, Bridesmaid, President Carnot, Kaiserin, Meteor, La France, Perle, Mrs. P. Morgan, Wootton:** These are extra large plants in perfect condition from 3-inch pots @ \$8.00 per 100. If you want a large lot, write us for special price and samples.

## ASPARAGUS SPRENGERII

From 2-inch pots, \$5.00 per 100; \$45.00 per 1000. This is extra fine stock. Strong 3-inch plants @ 10.00 per 100; \$85.00 per 1000. Write for special prices on large quantities.

## Asparagus Plumosa

Strong 2-inch plants @ \$6 per 100; \$50 per 1000. Strong 4-inch plants @ \$15 per 100; \$125 per 1000.

**Robt. Craig & Son,** Market and 49th Streets, **Philadelphia.**

Chrysanthemums, 2½-in.

Carnations, from soil.

Geraniums, 3-in.

All fine stocky ...plants **Cannas,** 4-in.

Write for Quotations.

The Cottage Gardens, QUEENS, L. I.

## Forcing Roses

	Per 100	2½-in.	3½-in.
BRIDE.....	\$2.50	\$4.00	
BRIDESMAID.....	2.50	4.00	
METEOR.....	2.50	4.00	

White, Pink and Yellow Ramblers, same. Moonvines \$25.00; Alternantheras \$18.00 per 1000.

## CHRYSANTHEMUMS

Strong, from 2½-inch pots, \$2.50 per 100.

EIDERDOWN	W. B. DINSMORE
MUTUAL FRIEND	MARION HENDERSON
WHITE SWAN	COL. SMITH
GOLDEN BEDDER	GLORY OF PACIFIC
MRS. HIGINBOTHAM	ENFANT DES MONDES
	MRS. ARISTEE.

THE NATIONAL PLANT CO., DAYTON, OHIO.

## 2,000 KAISERINS!

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Not glazed, 1 3/4 in. thick.

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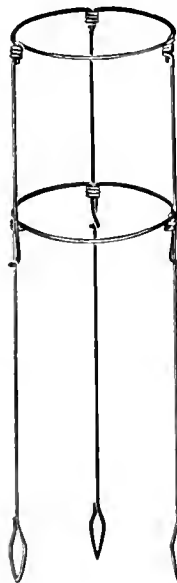
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W. HOBOKEN, N. J., Feb. 18, '97.

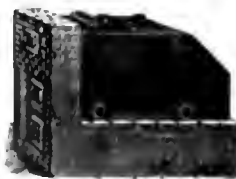
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:— It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am  
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**BOTTOM PRICES.**

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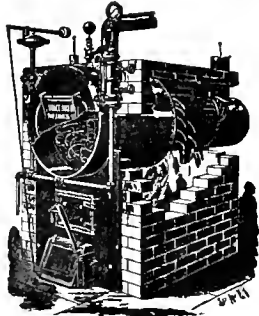
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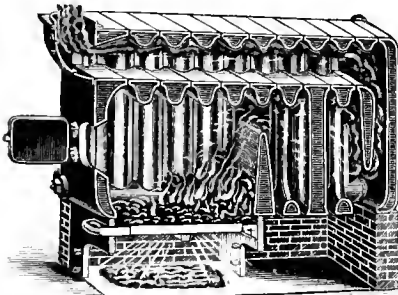
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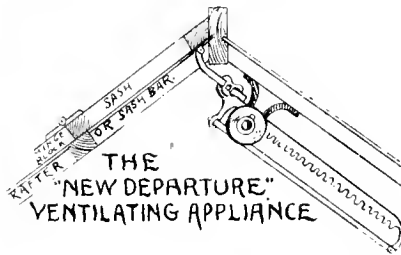
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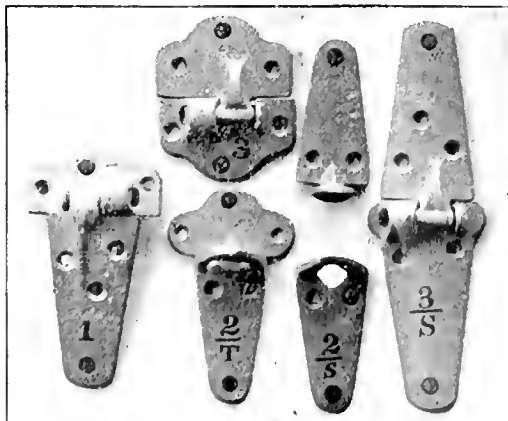
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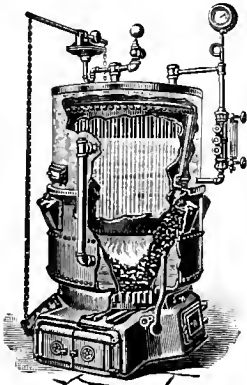
*I take mi pen, in hand to tel the Florists that i hev got up sum good things fur them to use in greenhouses, i aint mutch on Bucklarn in, but i am sum at inventin things fur to help Florests out.*



THE EVERLASTIN HINGE.

*Now if u use one of mi Bilers u wil save 1/2 the Koke Bil. Use 2 and u wil save it all an if u git 3 u wil have Koke to Sel. i have the Best an cheapest Sash liffin machines, an the Best Sash Hinges what is, Write me an i wil tel u all about em. mi name is, J. O. Barmody, i live in Evansville Indiana, which is close to Posey County.*

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Further information on application.

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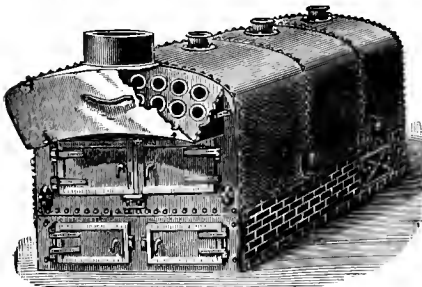
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**Greenhouse \* Boiler,**  
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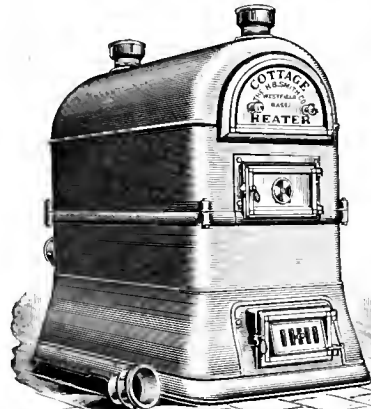
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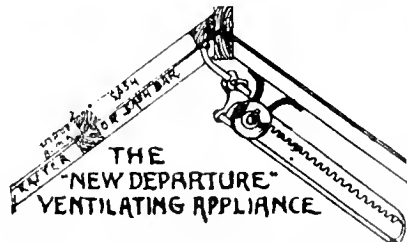
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**Water**

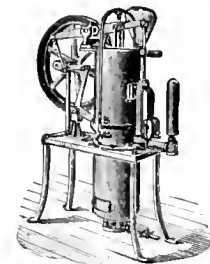
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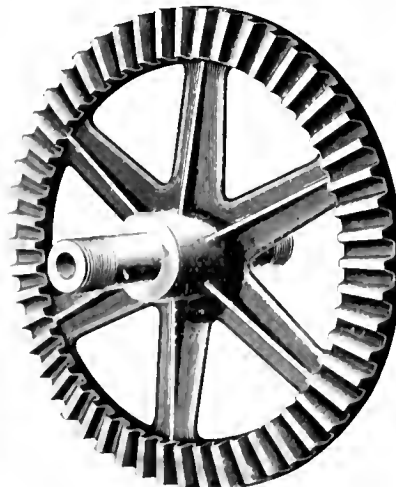
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### SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

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### THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

### CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
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HARTFORD, CONN.—T. L. Thomas has on exhibition a rare brugmansia. The plant stands 15 inches high and has at present eight beautiful blooms and one bud. The blooms are bell-shaped, about three inches long and the odor is sweet and delicate.

### The Culture of Dendrobiums.

[Abstract of a paper read before the June meeting of the Pennsylvania Horticultural Society by John Thatcher.]

These include some of the most useful and beautiful species of orchids in cultivation. By growing about twelve different varieties, one or the other can be had in flower nearly the whole of the year. The general culture of them is easy; no one who owns a warm house should be without a small collection. I will now give the mode of cultivation that I have used for several years, and with the majority of varieties I have always been fairly successful.

To insure success the roots must be in a healthy condition, and to secure this the plants should be repotted every two years, the compost to consist of good, clean, fresh sphagnum and broken crocks, these latter to be about one-half inch in size. Potting is a work that cannot be rushed along, as though you were potting geraniums, but should be done carefully, so as to injure the active roots as little as possible. When the plants are taken out of the pots or baskets all the old material and dead roots should be carefully removed. If pots are used they should be about three parts full of crocks; if baskets are used a few crocks over the bottom will be sufficient, for when hung up they dry out much more quickly than otherwise. Spread a thin layer of compost over the top of the crocks, and then spread the roots over the surface, filling in between with compost. When finished the compost should be about one inch above the rim of the pot. One great point is not to use too large a pot or basket. The proper time to repot is when the young growth is about two inches high, just when the roots are commencing to push out.

After repotting give the plants every encouragement to grow by supplying plenty of heat, moisture and light. Do not give much water till the roots get fairly good hold of the compost. Care must be taken not to let thrip, greenfly or red spider get headway. To keep these down syringe twice a day overhead on bright days and get well under the foliage. Shading, if it is permanent, should be very thin, but if possible do not have a permanent shade. If shaded too heavily the growth is weak, and if given a fair amount of sunshine it is possible to have stems like young bamboo canes. Manure can be applied with advantage to some varieties, but I would not advise its use where only a few plants are grown. If there are trough pipes in the house they may be kept filled with manure water when fire heat is in operation, and much advantage will be derived

therefrom. One of the best things I have found for giving a good, healthy, dark green hue to the foliage is fresh slacked lime and soot, two-thirds soot and one-third lime. Scatter the mixture on the paths and under the benches twice a week when the plants are in full growth, and anyone that has not used it will be surprised at the amount of beneficial gas it throws off.

Resting I consider the most important point in dendrobium culture, and many fail to keep their plants in a healthy condition because of neglect in this particular. The majority of dendrobiums, or I should say spring flowering varieties, as soon as growth is finished should be put in a cool, airy house and given plenty of sunshine, gradually withholding water; give only enough to prevent shriveling; the varieties that flower soon after growth is finished I prefer to leave in their growing quarters until the flowers are out. I will now give the six best varieties, to my mind, their season for flowering and the temperature they should be in if possible during the winter months. The varieties I shall name are easy to grow, free flowering and cheap: D. Phalaenopsis Schroderianum is the king of the dendrobiums. This variety produces its flowers on the top of mature leafy growths; it also throws out spikes from the two and three year-old growths. Well-grown plants produce two or more flowers on a spike and the color varies from pure white to dark magenta. The flowering season extends from August till November, and if possible this variety should be kept very dry in a temperature of 55° during the resting period.

D. nobile is one of the best and easiest to grow. The blooms are produced on the old growth, in twos and threes, all up the stem. It can be had in flower from the end of December till June, and should be rested in a cool house where the temperature does not fall under 45°. D. formosum giganteum is the largest flowering variety among the white kinds. It blooms on the ends of leafy stems in bunches of from three to five as soon as growth is completed. The flowers appear in August and September, and the plant should be wintered in a temperature of 55° and not allowed to get too dry. D. Balhousianum is very sweet scented and requires plenty of head room. When well grown the pseudo bulbs will reach to a height of four or five feet. The flowers are produced in a spray of from six to ten on the leafless growth, usually in April and May. It should be wintered in a temperature of 55° and kept fairly dry. D. Wardianum is a beautiful large-flowering variety and one that should be in every collection. The flowers are pro-

duced on the young growth after the leaves have fallen, from January to March. Winter in a temperature of 45° and keep moderately dry. *D. thyrsoiflorum* is the best of the evergreen kinds and one that can be grown in an intermediate house all the year. The flowers are produced in long pendulous racemes, which last about a week in perfection; the color is orange yellow, with white lip. Six additional good varieties will be found in *D. Falconeri*, *D. Hildebrandtii*, *D. macrophyllum*, *D. limbratum oculatum*, *D. Devonianum* and *D. Brymerianum*.

### Three Fine Pyruses.

The pyruses made a singularly beautiful display at the Arnold Arboretum this year while they lasted, but severe wind and rain cut their season shorter than usual. *Pyrus betulæfolia*, which is the subject of one of our illustrations, is a comparatively recent acquisition from the mountains near Peking, China, and is not yet in general cultivation. The flowers are pure white, appearing in clusters before the leaves. The fruit is very small, rusty brown, resembling a Seckel pear in color. Apart from its good qualities as an ornamental tree, Mr. Dawson advocates it as a stock for pear grafting, especially valuable on light soils.

*Pyrus baccata* is the well known berry bearing apple. It is an early bloomer, following close on the cherries. When full grown it makes a shapely tree fifteen to twenty feet high, but it begins to bloom when very young and with its long stalked flowers of good size makes an attractive picture. It comes in innumerable varieties with fruit yellow, red or green. The plant shown in our illustration is a seedling raised by Mr. Dawson and called by him the Hillside variety.

*Pyrus spectabilis floribunda* Scheideckeri is a novelty received from Spaeth's famous nursery at Berlin a few years ago. It is now about four feet in height and has bloomed every spring for three or four years. Mr. Dawson thinks it is a hybrid between *P. baccata* and *P. spectabilis*. The flowers are deep rose and are produced in great abundance. Its dwarf habit would indicate that its maximum height when full grown might be about eight or ten feet.

Another pyrus, of the Japan quince section, worthy of special notice is *Pyrus Japonica pygmaea*. The specimen in bloom at the Arboretum is from seed gathered by Prof. Sargent in Japan five years ago. It has bloomed already three years. The branches are reclining, almost trailing, the flowers clear orange vermilion, and the foliage soft and flexible, superior in many respects to the ordinary type of *Pyrus Japonica*.

### Toronto.

There was a large attendance at the Horticultural Society's June meeting in St. George's hall. T. McPherson Ross, president of the society, read an excellent essay upon "Herbaceous Plants," and illustrated his remarks by an exhibit of great variety showing the many stages of the growth of the plants under discussion. George Mills displayed a number of seedling petunias and described everything in connection with their development.

The society will give a chrysanthemum show in the fall and will soon distribute a large number of plants to school children, offering prizes for the best specimens developed by the date of the exhibition.

### The Florists' Bargain Counter.

ACCORDING TO CHICAGO IDEAS.

"We are now reaching out after retail business," said Louis Wittbold, who is in charge of the office at George Wittbold's handsome new establishment, "but I do not think we shall employ the bargain sale. I can see how special sales would be of great assistance to retail trade under certain conditions but as our wholesale business far exceeds our retail department we would feel that price cutting would be risky. We are probably the largest growers in the west of tropical plants and palms and ferns and if we should cut the retail price for a special sale we should at once incur the displeasure of other retailers who come to us for their stock. To be sure, we sell cut flowers over the counter and are doing a large and growing business in funeral and social work, but I think there are better ways of attracting customers than offering cheap sales. The best advertisement is a well pleased customer and we are endeavoring to do as extensive advertising as possible along this line. We gain an occasional order through neat invitations mailed to addresses in the Chicago Blue Book and we exert ourselves to please every such customer, not only the first time but every time. This is by far the most satisfactory trade to have and I am not sure that it could be obtained by an offer of bargains; in fact, I think that one first-class job of decorating for a largely attended wedding or dinner would bring more desirable patronage than would a whole year of bargain sales."

"Special sales have done me a great deal of good," said A. Lange, whose place of business is opposite the Palmer House, "and I believe that such sales, judiciously managed, will benefit any florist who is so situated that he has fair control of his field. It would not be advisable to start anything which would lead to price cutting between two adjacent dealers but a bargain never fails to attract all classes of people. I found that I could buy up a lot of stock, it made no matter what so long as it was cheap enough, make a big

display, put out a placard announcing the special price, and receive immediate response. If you once get a person to know your store he will come again. It may not be until some friend dies or until his wife gives a dinner but when flowers are wanted the man who has created a favorable impression by means of a bargain sale will come instinctively to the mind of the prospective purchaser. Of course an occasional buyer of a bargain will come back expecting to make other purchases at a cheap figure but a little diplomacy will send such away satisfied and thoroughly understanding the situation."

"No, sir! Never! You'll see us out of business before you see us offering 'bargains,'" said Andrew Miller, of the Central Floral Company, and he ceased work upon two great bouquets of beautiful *Lilium longiflorum*, which he was preparing for the bier of one of Chicago's leading jurists, only long enough to emphasize the remark. "There never will be anything cheap about this place. Cheapness is now doing a great deal of injury to the trade and when it comes to such a pass that we cannot do a legitimate business we shall retire. This hawking of flowers about the streets is of incalculable damage, and not more so to trade than to the flower itself. If people who can and will pay good prices for good blooms find the flowers stuck under their noses at every corner they will not have them at any price. An illustration of this cheapening process is the downfall of Cape jasmynes. When I started in business there was a good sale for this sweet scented flower at \$1.50 per dozen; to-day the street men are the only ones that can sell them at 15 cents. The department store bargain sale process of cheapening everything is hurting the grower just as it is the retailer. The dealers in good stock buy what they want of the commission man each morning and then the cheap sale man comes along and makes an offer for the balance of the stock on hand. He gets it, but what the grower gets is a question. There is too much inferior stock in the market. As soon as a man establishes a reputation for selling only first-



PYRUS BETULÆFOLIA

class goods, no matter what his line, he does not lack for well paying customers. Too many men have not the ambition necessary to establish such a reputation."

"If I should display a lot of flowers, cut blooms or plants, in my window and placard them with a price as low as I paid, I do not believe that it would attract a half dozen new customers," said E. Hobbs, "and the probabilities are that nearly every bargain sale I should make would be to some one who would have paid me a profit had I not offered the bargain. I confess that this is merely theory and might not be at all applicable to a down town store but I think that a cheap sale would be of little aid to any store in a residence district. In fact, I think that the chief obstacle to profit making business is the cheapness of the stock sold by department stores and fakirs. The fakirs have cut off nearly all the profit in bedding plants this spring. They have been able to buy up considerable numbers of geraniums and other stock which they have peddled at \$1 a dozen and have even planted them out where it was necessary to clinch the bargain. They make very few sales which florists would not make at better prices were it not for the fakirs. Then the street men down town hurt the sale of cut flowers. It is very seldom that a day passes without some one asking in surprise, 'Why! Aren't you high? I can get them for 10 cents down town,' when I ask twenty-five cents a dozen for first-class carnations. The average person fails to notice that the fakir's stock is that which no florist wants. The fakir sells the leavings of the commission house; he pays no rent and does not even wrap up the flowers he sells, but average humanity expects me to put into a neat box good flowers wrapped in tissue paper and deliver the package at a home a half mile away, at the street man's price. I don't see any way out of the situation. The fakir will do business as long as the commission man will sell to him and the commission man will sell to anybody at any price rather than have stock left on his hands. The only remedy seems to lie in a gradual improvement in the quality of stock sent in by the growers. Good stock will always command fair prices, but many growers, I fear, will always take what they can get for poor blooms rather than exert themselves to produce nothing but the best."

"Bargain sales? No. We've never tried them," said E. Weinhoeber. "I have never given the matter consideration but at first thought it does not appeal to me. Business has been excellent this spring; since Easter, in fact, we have had all that we could attend to satisfactorily, and I see no reason for resorting to any questionable method to gain trade. As a general proposition I do not believe that any high class establishment will derive benefit from resorting to department store ways of drawing a crowd. I am quite sure that bargains would be little temptation to our patrons. Bargains almost invariably mean poor stock and that is just what my people do not want. While I find little difficulty in selling good stock at reasonable prices some places may find special sales expedient, but I am too busy to view them in other than an unfavorable light."

"I am not a believer in cheap sales," said W. McCormick, who is an old time worker with W. J. Smyth, whose Michigan avenue store is one of the finest in the city. "Cheap sales are all right for some purposes but they would not do for us. At least that is my idea and I think that Mr. Smyth fully agrees with me. The



PYRUS BACCATA.

people to whom we appeal do not want cheap flowers; they want the best and are willing to pay what they are worth. Most of our customers buy more or less regularly. I do not think that they would be induced to buy oftener if special sales were offered and I fear that nearly every sale at a bargain price would be the expense of the regular trade. I think that Mr. Smyth will always be satisfied with a high class, legitimate business. Trade is very good this spring and the only difficulty we are experiencing is in obtaining first quality stock. American Beauties are now far from good. I do not think that the cheap sales and street men are hurting our trade, in fact they are causing many people to buy flowers who would otherwise never do so. Of course, it would be far better if there was no poor stock but so long as a large proportion of the product is below a high class grade it is better that there should be an outlet for the poor stock than that it should remain unsold to clog the channels of trade. Growers are gradually finding out that their profit increases with the quality of their stock and the result is an apparent improvement which we hope will be continuous."

#### OTHER PHILADELPHIA VIEWS.

My next call was on a wide awake up-town florist, Chas. H. Fox, whose up-to-date methods, bright advertising and enterprise have been favorably commented upon. Mr. Fox has two stores.

"Yes," said Mr. Fox, "we find special sales a good thing and run them regularly at our Columbia avenue store. We dispose of a great deal of surplus stock in this way. It enables us to buy more

liberally for both stores, and by so doing get concessions in price. We can keep a finer stock at our Broad street store, and whenever we have a surplus there we can run it off up-town. We apply the special sale idea only to plants. The public knows something about the price of plants, but has very little idea of the value of cut flowers. Prices are so fluctuating that stock worth 50 cents this week may be worth only 5 cents seven days from now. We therefore confine our bids for public patronage to the plant department alone."

"Would you be in favor of introducing the special sale idea in your Broad street store?"

"No, sirree! We do not want anything of that kind down there. We have a first class clientele in that neighborhood, and we would soon lose our best trade if we were to institute any such method there. I know something of the class of trade it brings when you advertise special sales, and I certainly do not want that kind of business at our Broad street establishment."

It will be noticed that Mr. Fox's experience coincides with Mr. Cartledge's idea on the subject; namely, that the bargain counter idea might be all right for certain neighborhoods, but would be decidedly out of place for a store catering to a high-class trade.

"I thought that thing up some years ago," said John Wescott. "Some years ago, when I was with Pennock Bros., I thought we might try the bargain counter when we had a surplus of any kind of flowers. We might have a counter at one side of the store fitted up for special sales, all goods to be sold for cash, and

have a cash register there so it would not interfere with the other business. I think we could have made considerable money, probably \$200 or \$300 a day, and that it would be beneficial to the growers. It would accommodate a great many people who want only a few flowers. My idea would be to do as Wanamaker does when he has any bargains, to advertise them and let the people know it, and give them to understand that they only had the benefit of these bargains because there was a surplus of stock. I do not think that a bargain counter would hurt the standing of a high-class store. I would tell the growers we did not want any poor stock on these bargain counters, nor would I offer at a bargain the pick of the stock. Many good customers would not go near the bargain counter, because they would think the stock would not be good, and others would soon find out that the pick of the flowers would be at the regular counter. I do not believe Wanamaker makes a great deal on what he sells at his bargain counter, although the department stores are hurting, and will hurt, the business of the retail florists until we will be forced to make a move toward meeting these things. These department stores are more progressive than our florists. About six years ago a book called the "Little Chatterbox" came out. It was published by Lippincott; their price was 50 cents. Retailers sold them for about 75 cents, but Wanamaker sold them for 40 cents. The other people went to Lippincott and complained because Wanamaker had bought them lower than they had, and Lippincott had to exhibit his books to show that Wanamaker

bought them for 50 cents. It was a big advertisement for Wanamaker and he sold ten other books for one "Little Chatterbox."

"You think, then, it pays to take a leader and sell below cost for the sake of getting the crowd?"

"Well, may be a little above cost. I think it really would pay, for people would probably buy something else. One should have cheap carnations and expensive carnations. The customers would look at those at the bargain counter and at the good ones at the regular price. They would pay the difference and be glad to do it."

"Even the most liberal people want things cheap. Then again some people think that if they are not required to pay a good price for a thing that it is not good. The people coming in to the bargain table would go over to the other counter, that is, if it were in the same store, and ask questions. It would be a nuisance, especially in the busy season, and if you had a store next door for a lot of cheap plants and flowers, you could keep your first-class place in better condition. There is more than one side to the question."

"Do you think that the wealthy people, who are rather exclusive in their ideas, feel like looking down on a store that has a bargain counter?"

"I do not really think so. Wealthy people often want something for one particular occasion. On a Saturday they want a few flowers to take to a friend, or to take home, but they do not always want something expensive. It is a great

deal better for a first-class store to sell at cost than to throw the flowers out."

"Would it not be better to give them to the hospitals rather than drop prices?"

"That is all in the hands of the growers. The grower sends his stock to the commission man and wants him to sell it. If he sends a large quantity and there is a glut on the market they have to be sold cheap. I always take it that as soon as you make a thing too cheap you make it undesirable. John Y. Smith, of Doyles-town, said some years ago, that he was going to make roses so cheap that every working girl would be able to have them. He was injuring the florist and injuring himself. Just as soon as you make a thing too cheap the rich will not buy it. They want to wear something that the poor cannot afford."

"The right kind of competition is the life of trade. By fair competition I mean that in which every one lives up to what he promises. When it comes to taking an order, and estimating on a wedding decoration one man would say he would do it very cheap, and promise that everything should be good; but the stuff would turn out to be poor. Of course the customer would be dissatisfied. There has been too much competition of this kind. Twenty-five years ago, when there was not a great deal of plant decorations, they used to use camellias, carnations, and maybe old azaleas, anything to look a little green, to put on the table or to fill up the fireplace. That kind of stuff would be sent in a closed wagon and charged at ten dollars a load, when the stuff was not worth much more than that. Then after they got to using palms and other choice plants competition was such that the price was not raised as it should have been. As soon as you get too much competition it is the death of trade."

"I believe that the growers would profit in the end if they would make an effort to regulate the quantity of stock in the market by holding back part of their cut when there is a prospect of an over-supply. So long as the growers do not do this the dealers must make the best use they can of the supply, and I believe that the bargain counter is a valuable agent for the consumption of the surplus."

G. C. W.

#### A MINNEAPOLIS EXPERIENCE.

"I have been using the special sales for some time as a means for gaining new trade and have found that they have paid me well," said E. Nagel, of 824 Nicolett avenue, Minneapolis. "I have found that bargain offerings not only attracted a large number of people to my store upon the day of the sale, but that many of them came again on days upon which I offered no special inducement. As this is the chief aim of such efforts I may say that my special sales have accomplished their object in every respect. Best of all, I have found that special sales have helped regular business upon bargain days. I suppose that people attracted to the store by the cheap price of one article have seen something else which they preferred and have been willing to pay the regular price to obtain that which caught their fancy. Cut flowers are the only things which we offer at special sales. We aim to sell nothing but perfectly fresh stock and use a good quality of blooms for bargains but never so employ the very best, those being reserved to make sales at regular prices. We never offer a special price without advertising it as thoroughly as our business will warrant in



PYRUS SPECTABILIS FLORIDA SCHEIDECKERI

the local columns of the daily papers, and we find that there is ready response from all classes of people. Very few people speak of having bought at cheaper prices when they come again for the same stock on other than bargain day. As a rule they expect to pay the regular prices, but when an occasional person expects to buy a second time at cheap prices he is usually satisfied by an explanation that the special price was for that day only."

Mr. Nagel's greenhouses comprise 10,000 square feet of glass and are located in a good residence part of Minneapolis. His store is on one of the cleanest, broadest, busiest retail streets in America.

#### FROM A NEW YORKER'S STANDPOINT.

For the florist who raises the stock, himself, undoubtedly beneficial, especially if at a time when his product is too heavy for the ordinary demand. But for the florist who has to buy stock, apt to be injurious both directly and indirectly unless his financial condition is known to be such that no one will question his ability to pay his bills.

Bargain day is dear to the hearts of the shoppers, and if, when judiciously managed and properly advertised for just what it is, it has proved a sagacious business policy in other retail lines, then why not, also, in the florist trade? S.

#### Carnations.

There is considerable interest manifested in the solid bed system of growing carnations, on account of the saving of expense in benches and labor. While there may be certain sections or certain soils where this system may not be practical, experience will finally show that such places are few and far between.

Success can only be obtained by experience, as it would be impossible for anyone to lay down certain rules to follow which would bring good results in all soils; but one of the important points in this method is to have a house properly constructed for the purpose, and such a house I will attempt to describe. This house was built in the summer of '96 and has been in use now two seasons. In it a great variety of carnations have been tried and the first failure has yet to be charged up against it. The house is 256 feet long by twenty-two feet wide. An even span runs directly north and south with a slope of two feet to the south in its entire length. This slope to the south gives it the benefit of the winter sun better than if it were perfectly level, and carries all the water to the south end.

It is heated by steam, from five 1 1/2-inch pipes that run the entire length of the house. The pipes are arranged along the side of the house, the first being directly under the gutter and the others following four inches apart on down the side posts. They are fed from the northwest corner of the house and run on down the west side across the south end and back along the east side where they connect with the return, thus making a continuous flow of 534 feet and giving ample heat for the coldest weather. Each pipe is supplied with a globe valve where it connects with the feed and a check valve (hinged) where it empties into the return, so that we can use one pipe or the five just as we see fit.

Along each side of the house is a path two feet wide and dug out to the depth of two feet, giving a good working path without throwing the side of the house up high enough to make shade to hurt the carnations. Next to this 2-foot path is a bed five feet wide, a path eighteen

inches wide, another bed five feet wide, a path eighteen inches wide, still another bed five feet wide and the 2-foot path along the side.

This gives us fifteen feet of growing surface across the house. Some may think this is not enough out of twenty-two feet, but a very careful comparison of results shows that this house gives us more flowers per square foot of ground surface under glass, than by any other method in use, and in addition to this, the plants are far healthier and stronger in every way. The reason for this is very plain as it is conceded by all growers that to get the best results from carnations they must have an abundance of light and a free circulation of air. The beds are made directly on the subsoil, and consist of five inches of loose growing soil, to which manure is added as may be necessary. This gives us, after the compost has become settled by watering, about the same depth of soil as that ordinarily used on benches, four to five inches. The 18-inch paths are made by simply staking up boards six inches wide for the sides.

The construction of the house is also to be taken into consideration, as the object is to have as little shade as possible. I used a very light cypress rafter twelve feet long for each side and a ridge that is one and one-half inches by six, merely heavy enough to hold the rafters together and allow the ventilators to rest below its level. There are no center supports at all, but five feet from the ridge on each side of the house there is a run of 1-inch pipe supported by 1-inch pipe posts every eight feet. This is ample support for the roof, unless it is clumsily heavy, where the snow storms are not very severe. The glass used is 16x24, double thick and of first quality. It pays to buy good glass. The ventilation is such as would amount to a continuous ventilator the entire length of the house three feet wide, only it is equally divided on the two sides. The ventilators open at the ridge and by having them on both sides one set can be opened no matter whether the wind is from the east or the west without passing a cold draught of air over the plants, which is as injurious to the carnation as it is to the rose.

It is my object, as the balance of the glass needs rebuilding, to throw my whole place into such houses as this, attaching them and leaving them open under the gutters the same as Dreer has done in his new houses and as I have done myself on a small scale for ten years past. When this is accomplished I feel that I can grow enough carnations for every dollar that is invested to meet the competition of any grower who is in the business for a living and pays his bills. We carnation growers have made some money in the past but the margin of profit is getting smaller every year, so that it will become an absolute necessity for us to use every possible means of cheapening the production and at the same time increasing the quality of our flowers.

ALBERT M. HERR.

#### New York.

WHOLESALE MARKET REACHES LOW-WATER MARK.—FLOWER SHOW OF THE AMERICAN INSTITUTE.—BUILDING OPERATIONS AT MADISON, N. Y.

There is very little to say regarding the wholesale market this week, as everything is at low-water mark. American Beauties are about done here, and will not be looked for until our over-supply from outdoors is disposed of. Jacks have been mostly called for of late, but hybrids

in general are bought only by the green Greeks. Brides and Bridesmaids, the few that are coming into this market, are very poor, and they are disposed of almost for the asking; any price goes.

Paeonies, particularly red, were in their fullest demand this week. Recent events have taught the wise florist to grow them for early and late for this market. Carnations, indoor grown, saw their finish for this season this week, and it was a very poor adieu for such a prosperous year. White orchids have been called for frequently, but not as they were in "Ye olden time," for 15 to 20 cents were the top figures.

The Bridgeman Company had the decorations for the Roeder-Hayward wedding this week. White orchids and *Dendrobium Jamesianum* were used for the bouquets. Roses, paeonies and palms were used profusely for the house decorations, in which Mr. Bridgeman displayed artistic originality.

At the strawberry and flower show held under the auspices of the American Institute, 113 West 38th street, Wm. Turner, gardener to Mr. W. Rockefeller, Tarrytown-on-Hudson, exhibited three bunches of grapes, two of Black Hamburg and one of Muscat of Alexandria, which weighed three pounds each; also a vase of Kaiserin Augusta Victoria roses, cut outdoors, which were acknowledged by all to be the best ever seen so early in the season. A. Herrington, of Florham Farms, Madison, N. J., showed some fine delphiniums, and also some *Hemerocallis aurantica major*, very showy, and a good flower for floral decoration.

L. A. Noe, of Madison, N. J., is building one house especially for growing his young rose stock. Henry Hentz, Jr., of the same place, has just added six new houses to his already large establishment. Beauties, Brides and Maids will be his specialties for the coming season.

PETER MACDONALD.

#### Philadelphia.

SUMMER QUIET PREVAILS.—KAISERINS GROWN SINCE EASTER.—JUNE MEETING OF THE PENNSYLVANIA HORTICULTURAL SOCIETY.—MANY FINE EXHIBITS.—MADONDA'S NEW ROSES MAKE ANOTHER APPEARANCE.

There is little that can be said about business for the demand is very light. There is plenty of stock but the quality is very poor. Prices are the same as last week and are about on a summer basis. Sweet peas are almost given away as 40 cents will buy 100 of the best flowers in the market and 15 cents is the price at which many are sold. Blooms are being cut from Kaiserin stock planted since Easter. The stems are rather short but the flowers are good. Crimson Ramblers in bunches have had a little sale at \$1.50 per hundred sprays and proved very useful for decorations. Water lilies, pink, yellow and white, are now coming in and sell at from \$3 to \$5 per 100.

Pennock Bros. have had a large tank made for their show window which, when filled with lilies, makes a pretty display.

The independent order of Greeks seems to be increasing rapidly, keeping pace with the surplus and doing its best to come out ahead in every deal. They are the closest of buyers and keep the commission men on edge all the time.

The June meeting of the Pennsylvania Horticultural Society was a record breaker for a monthly show, both in point of attendance and in the display of flowers and vegetables. The H. A. Dreer Co. exhibited some twenty-five vases of

Japanese iris, a dozen or more of a kind to a vase, which made a fine display and attracted much attention. These flowers will no doubt become very popular as they are so showy and come in at a time when most of their garden companions are through flowering. The Andorra Nursery Company also sent a choice collection of these beautiful irises. W. A. Manda, of South Orange, N. J., made an exhibit of his new hybrid roses, Wichuraiana, crossed with teas and noisettes. There were vases of the varieties Evergreen Gem, Jersey Beauty, and Gardenia. This display caused much comment and was awarded a silver medal. They are an entirely new type of rose and will certainly be largely grown. A white cluster rose, a cross between Wichuraiana and a noisette, called Manda's Triumph is said to force well in pots and to be a fitting companion to Crimson Rambler. The individual flowers are as double and about the same size as the Rambler and are borne in clusters of much the same form. Mr. Manda also exhibited a bloom of the yellow calla, Elliottiana, and a new orchid, *Laelia-Cattleya elegans* Mandaiana. H. T. Chinkaberry was awarded a silver medal for *Cattleya Harrisoma alba*, the only known plant and a vote of thanks was tendered him for an exhibit of forty vases of orchids. A splendidly flowered plant of *Bougainvillea glabra* Sanderiana exhibited by John Hobson received a certificate of merit for culture. John Thatcher staged a few rare plants, one being *Francoa ramosa* nicely in flower, a bloom of the cradled orchid and also a vase of cypripediums. He also read a paper on the culture of dendrobiums, an abstract of which appears in another column. There were also some nice collections of sweet peas exhibited for the H. F. Michell prizes and among the vegetables a number of plates of peas in the pod and heads of lettuce for prizes offered by H. F. Michell and the H. A. Dreer Co.

Philadelphians note that there are some bowlers in far away Omaha. Scores of 170 and over are a credit to any man, but they are hard to get when anything is at stake. The Evans cup looks very nice in the case at the club rooms along with some fifteen others, but we will willingly leave it in the west next August if we have to. K.

#### Boston.

PEONY EXHIBITION OF THE MASSACHUSETTS HORTICULTURAL SOCIETY WAS VERY SUCCESSFUL.—SEASON NOT FAVORABLE BUT MANY FINE EXHIBITS WERE MADE.—NAMES OF THE PRIZE WINNERS.—THE ROSE AND STRAWBERRY EXHIBITION.

The unfavorable early spring caused the Massachusetts Horticultural Society to postpone for seven days its annual peony show, but even the additional week failed to afford time for the late varieties to come into bloom. However, Horticultural Hall was well filled with excellent exhibits on June 18, and, as the exhibition is a widely appreciated event, the attendance was large.

The special prizes offered by Kelway & Son, Langport, England, for eighteen named varieties, single or double, brought out many fine flowers. The prizes were won by Dr. C. G. Weld, first, a silver gilt medal; and T. C. Thurlow, second, a bronze medal. Particularly good among Dr. Weld's collection were Gen. Carvaignac, blush; Lady Leonora, Bramwell, dark rose; Chas. Verdies, deep rose; Globosa, bluish; Francois Ortegat, deep maroon; Model of Perfection, deep rose; Zephyrus, white and flesh color; Princess

Beatrice, rose; Agnes Mary Kelway, cream and blush; Blanche Niede, white. The most striking among Mr. Thurlow's collection were Baroness Schroeder, white and blush; Bridesmaid, blush white; Fostira Maxima, white, marked with red; Modeste Guerin, deep carmine pink; Jeanne d'Arc, cream white and blush; J. Descaine, white guard petals and yellow filaments; Edward Andre, very deep crimson. There were also several single varieties that were handsome in their way.

In the contest for prizes for collections of double varieties T. C. Thurlow was first with a very fine display including eighty-five varieties. Dr. C. G. Weld was second and Geo. Hollis, third.

The prizes for named single varieties was won by T. C. Thurlow, first, and Geo. Hollis, second. For specimen blooms Dr. C. G. Weld took both first and second with Model of Perfection, deep rose pink, and Blanche Niede, white.

In the class for cut blooms on long stems arranged in vases for effect there were three competitors, Dr. C. G. Weld, Geo. Hollis and Mount Vernon Nursery, the prizes being awarded in the order named.

Foxgloves made a fine showing and the prizes were awarded to John L. Gardner, Mrs. M. S. Walker and W. N. Craig, first, second and third in the order named.

Gratuities were awarded as follows: To Wm. H. Spooner for a display of roses which included several of the Lord Penzance sweetbriars and the new single rose, Hebe's Lip; to Mrs. E. M. Gill for sixteen vases of peonies and a large display of hybrid roses; to James Comley for two large tables filled with rhododendrons, azaleas, peonies and foliage and flowers of ornamental trees and shrubs; to Oakes Ames for a display of hardy plants, including *Heracleum giganteum* in flower; to G. L. Clark for a display of hardy flowers; to Mrs. A. W. Blake for a display of hardy flowers; to the estate of Jos. S. Fay for rhododendrons and peonies; to Rea Bros. for pyrethrums and other hardy plants; to W. N. Craig for a display of hardy flowers; to Wm. Nicholson for three fine vases of carnations, Daybreak, Eldorado and Mrs. G. M. Bradt.

R. and J. Farquhar & Co., exhibited a beautiful collection of double hardy pyrethrums, the finest ever shown here. They were awarded a silver medal.

Oakes Ames was awarded a certificate of merit for a new variety of *Cattleya Mendelli*, very delicately shaded, named Mrs. A. C. Ames.

T. C. Thurlow was awarded a certificate of merit for the new double syringa, *Philadelphus Lemoynei*.

C. G. Roebbling showed a cut spray of *Cattleya Mendelli* var. C. G. Roebbling, with petals of a peculiar mottled rosy-violet color.

W. A. Manda showed four new roses, seedlings of his own raising, crosses between Wichuraiana and Mme. Hoste, Perle des Jardins and Meteor, which have recently attracted much attention. The first are in varying shades of yellow and are evergreen; the Meteor cross is a delicate pink.

In looking over an exhibition of herbaceous peonies one is struck with the deplorable condition of the nomenclature of the flower as regards the garden names. Probably many years of neglect and carelessness in naming are responsible for this. It seems as though every dealer had named and renamed old varieties without consideration until one name is applied to anywhere from one to a half dozen different varieties, and one never

knows when he buys by name what he will receive. If the interest in the flower increases as it is likely to do they will need to be taken in hand, as the narcissi were a few years ago in England, for a general straightening out of names. If it could be accomplished it certainly would be a great convenience to both buyer and seller. A. H. FEWKES.

The annual rose and strawberry exhibition of the Massachusetts Horticultural Society, which was held on June 24, was superb as to the strawberries, weak as to roses and very good in other classes. About 400 quarts of strawberries were displayed on the tables, and they have never been excelled. The cold, backward season has retarded the roses and the date was several days too early to show them at their best. The display from the estate of J. S. Fay filled one-half of the upper hall. Other large rose exhibitors were W. N. Craig, James Comley, J. L. Gardner, Mrs. E. M. Gill, Mrs. B. P. Cheney, Mrs. E. A. Wilkie, E. S. Converse, Miss M. S. Walker, Jos. H. White, Dr. C. G. Weld, Mrs. A. W. Blake, Dr. O. S. Paige and W. H. Spooner.

Novelties were scarce. Wm. H. Spooner's Hebe's Lip and Lord Penzance sweetbriars and Walsh's Joseph S. Fay being the only ones noted. More admired than any others were Jackson Dawson's beautiful multiflora and rugosa hybrids, which received honorable mention.

One of the finest orchid groups seen here for years came from W. P. Winsor; *miltonias*, *epidendrums* and *Ceologyne Dayana* were superbly grown. J. B. Shurtleff, Jr., showed a geranium said to be a sport from Mme. Salleron, more vigorous and with leaf more deeply cleft than in the parent variety. James Comley made a fine display of his hardy white seedling rhododendron. E. J. Mitton staged a dozen well-flowered fancy pelargoniums. George Hollis exhibited two commendable seedling peonies. John L. Gardner showed several handsome orchids. Robert Laurie had excellent chrysanthemums and tuberous begonias. T. C. Thurlow had eighty varieties of peonies on display, and John Jeffres and W. H. Cowing brought extensive collections of Spanish iris. There were also large displays of sweet williams, foxgloves, pelargoniums, gloxinias and other seasonable flowers from many other contributors, and the exhibition as a whole was exceedingly good, notwithstanding the inferiority of the roses. The public was admitted free. Among the visitors noted were Leonard Barron and A. T. Boddington, of New York; P. L. Atkins, of Orange; and D. MacRorie, of South Orange, N. J.

#### Topeka, Kans.

James Hayes, of College Hill, is confined to his couch by a knee which was recently severely injured by a kicking horse. Business has been so brisk with him this spring that he finds his illness irksome. He is making some improvements about his place, putting heat into the violet house and building an addition.

W. C. Graves had a successful rose sale this week, and reports spring business as excellent.

M. J. Wallace is building a new house of a thousand feet of glass to meet the requirements of increasing trade.

Since Memorial Day trade has been quite dull, but this spring has seen a greater sale for bedding plants than ever before. M. J. WALLACE.

**THE AMERICAN FLORIST**

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wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

LOUIS SCHMUTZ, of Brooklyn, N. Y.,  
celebrated his silver wedding June 21.

LELIA-CATTLEVA ADMIRAL DEWEY was  
exhibited recently in London. There is  
evidently one Englishman who knows a  
good thing when he hears about it.

JET BLACK ROSES, so long considered  
impossible of production, have, it is  
announced, made their appearance in  
Russia. Mr. Fetisoff, an amateur of  
Veronezh, is said to be the originator of  
the plant which bears them.

THE new *Lilium rubellum* lately ex-  
hibited for the first time in England has  
made a very pleasing impression. It is  
apparently very free flowering and the  
plant is said to resemble a slender *L.*  
*auratum*. Color a palerose or rosy pink.

JOHN MORRIS, gardener at Forest Park,  
St. Louis, has "remembered the Maine"  
by an ornamental bed representing that  
famous battle ship. Another new decora-  
tion in the park is a huge shield-shaped  
bed in which in bold letters is, "Dewey,  
U. S. N."

REFERRING to our report of the Ameri-  
can Carnation Society's convention, an  
Australian contemporary remarks: "In  
a list of standard varieties submitted to  
the conference over 100 are enumerated,  
and of these hardly a dozen probably are  
known to Australian growers. This sug-  
gests isolation from American growers so  
far as this particular flower is concerned,  
and there seems no good reason why  
more intimate relations should not be  
established between nurserymen of the  
two countries, which would doubtless  
prove to be of mutual benefit."

**Fumigating With Sulphur.**

Constant advice is given to fumigate  
houses with sulphur after they are cleared.  
This is a most excellent thing to do, but  
before burning the sulphur the hose  
should be put on and the whole house  
thoroughly wet down inside, roof and  
all, reaching every crack and cranny pos-  
sible. The water absorbs the fumes of  
the sulphur and carries them into the  
dirt and so reaches the depths of many  
cracks that the dry fumes would not  
reach.

**Obituary.**

Julian L. Huss, of Augusta, Ga., died on  
June 1, from injuries sustained by being  
thrown from his carriage while driving a  
spirited horse. Mr. Huss was a native  
of Lausanne, Switzerland, where he  
learned his business, going from there to  
Geneva, thence to Paris and next to  
Low's nurseries at Clapton, England,  
where his brother J. F. Huss, now of  
Lenox, Mass., was employed. After two  
years at Low's and a year at the Royal  
Botanic Gardens, Kew, and Cambridge

he came to Augusta. During the fifteen  
years he has been engaged in business there  
he made many warm friends by his kind  
and amiable disposition and did a pros-  
perous business. He leaves a brother and  
his mother, the latter being in Switzer-  
land and now nearly 90 years of age. Mr.  
Huss never married.

**Cut Flower Price Lists Received.**

Holton & Hunkel Co., Milwaukee;  
Wm. F. Kasting, Buffalo; Cincinnati Cut  
Flower Co., Cincinnati; Bassett & Wash-  
burn, Chicago; Louisville Supply & Ex-  
change, Louisville.

**Greenhouse Building.**

St. John, N. B.—Wm. Shand, rose house  
20x100, commercial house 17x70.

Helena, Mont.—State Nursery Co.,  
three rose houses 16x130, cold house  
10x50, 75 foot extension to palm house.

Madison, N. J.—L. A. Noe, house for  
young roses. H. Hentz, Jr., range of six  
rose houses.

Council Bluffs, Ia.—J. F. Wilcox, five  
houses each 24x70 and three houses  
24x20.

**Brooklyn.**

The sixth annual picnic and promenade  
of the Greenwood Florists' Employees  
Association was held at Almer Park,  
Gravesend Bay, N. Y., on Wednesday,  
June 15. On entering the spacious grounds  
each lady was presented with a bunch of  
flowers, and the gentlemen with bouton-  
niers of carnations. At nine o'clock in the  
large pavilion, the orchestra, behind a  
bower of flowers, rendered the grand  
march which was participated in by 150  
couples led by James Hession, president of  
the association, and Miss Waller. After  
the march dancing was indulged in until  
the small hours of morning. In a smaller  
pavilion a piper and fiddler discoursed  
excellent music. All had a good time,  
especially so at "Camp Black." The  
flowers were donated by Messrs. Condon,  
Weir and Kromback. FERRIS.

**Detroit.**

Harry Balsley, of the Detroit Flower  
Pot Manufactory, has been elected presi-  
dent of the Board of Park Commissioners,  
an honor of which he is thoroughly  
deserving. Mr. Balsley has traveled  
extensively in the interest of his firm and  
has visited many parks, few of which  
possess greater natural advantages than  
Belle Isle Park, which now comes under  
his management. As the city is at pre-  
sent expending considerable sums in the  
improvement of the parks and boulevards  
Pres. Balsley will be afforded a fine  
opportunity to display his managerial  
and artistic talents. On his travels  
"Harry," as Detroiters all know him, has  
gained a wide acquaintance among flor-  
ists, all of whom, we are sure, will con-  
gratulate our city upon his selection as  
head of the park system. A. D. M.

**Baltimore**

THE BUSINESS SITUATION.—THE WEATHER.  
—MARYLAND HARD LUCK STORIES TERSE-  
LY TOLD.

There is nothing very cheering in the  
present condition of business. Plant  
sales are practically over for the season  
and the market men, who ought to know  
about plant sales, if anybody does, seem  
generally inclined to pronounce it a bad  
season; slow sales and low prices. One  
florist, to close out his stock, sold 1500

4-inch pot geraniums for \$15, and stories  
of similar sacrifice sales are sufficiently  
numerous to show rather a demoralized  
market. At such times as these it is some  
consolation to know that others are as  
badly off, and the prices the vegetable  
gardeners have received for their two  
chief crops at this season, strawberries  
and peas, make one, if not glad to be a  
florist, at least glad not to be a truck  
farmer. Only fancy growing, gathering  
and marketing green peas at 12 cents a  
bushel, a price at which thousands of  
bushels have been sold to the canning  
houses this month.

The weather is very dry and crops of  
all kinds will suffer unless we have a  
drenching rain soon. Prices of cut flow-  
ers remain unchanged, and, indeed, there  
is little probability of a rise for some time.

MACK.

**Louisville, Ky.**

The Kentucky Society of Florists will  
give an unusually elaborate picnic at  
Anchorage, Ky., near C. Rayner's Rose  
View greenhouses, on August 4. Exten-  
sive preparations are being made for the  
event, and business will be generally sus-  
pended on that day. The best band in  
Louisville will be in attendance and there  
will be all kinds of sport on the grounds,  
which will be reached by hayracks after a  
trip on a special train. The committee  
on arrangements is C. Rayner, S. J.  
Thompson and H. Kleinstark.

Business has been very good here the  
past week. There has been no over supply  
of stock, and fair prices have prevailed.

**Canna Nomenclature.**

ED. AM. FLORIST:—We notice in your  
issue of June 11, under the head of "Canna  
Nomenclature," that A. Blanc & Co.  
claim the name of Admiral Dewey for their  
new canna on the ground of priority in  
publishing said name. We would like to  
say to the readers of the AMERICAN FLOR-  
IST that when we learned that A. Blanc  
& Co. had gone to considerable trouble  
to hold that name, we immediately waived  
all claim to it. But we do think that in a  
case of this kind that priority alone should  
not establish the right to its ownership,  
but that the merit of the plants in ques-  
tion, as new and distinct varieties of  
value, should have great weight in arriv-  
ing at a decision. We would be willing  
to submit our plants on this basis.

THE CONARD & JONES CO.

**How to Get Government Bonds.**

ED. AM. FLORIST:—By special request of  
Secretary Gage, one of your contempo-  
raries publishes a circular telling all about  
how to get a bundle of Uncle Sam's nice  
new bonds—that is, all about it, except  
one thing. The secretary forgets to tell  
us how to get the \$20, and the careless  
editor overlooks it and fails to supply the  
omission.

I have long wished to own bonds and  
cut coupons (I think the wire shears  
would do the cutting, on a pinch). The  
only bonds I ever had anything to do  
with were peace bonds, and I had to give  
them—never mind why, it is not a pleas-  
ant remembrance.

Now about these other bonds, I want  
one awful bad. Please, Mr. Editor, tell  
me how to get the \$20? The secretary  
evidently expects all of us florists to buy,  
and the editor of the other paper seems to  
be backing his friend the secretary right  
up, or, perish the thought, was it only a  
case of a column and a halt of gratuitous  
reading matter?

### The Latest Swindle.

From a variety of places reports have recently come of swindles perpetrated in the manner practiced upon L. E. Marquisee, Syracuse, N. Y., June 17.

A well dressed man rented eighteen palms in the name of one of Mr. Marquisee's good customers. The florist's delivery wagon was met near the customer's home and was escorted to the rear entrance to the grounds, where the plants were left, the swindler having previously asked and obtained permission to leave them there "while he was delivering to customers in the neighborhood." After the wagon had gone the man and an accomplice peddled out the plants, at the best bargains they could drive, and vanished. The whole transaction was so like ordinary methods that no one's suspicion was aroused until Mr. Marquisee telephoned next day to his customer to inquire at what hour he should call for the palms.

### Chicago.

COMMENCEMENT WEEK PROVES A BOON TO FLORISTS.—ROSES ARE OF POOR QUALITY. CARNATIONS ARE ABOUT DONE.—SWEET PEAS AND PLOMONIES IN FAVOR.—NOTES AND COMMENTS.

With cut flower dealers the past week has been one of the busiest of the year. Somewhat less flowers have been on the market than during the preceding seven days, and the demand has slightly improved, not enough, however, to materially affect prices, except on the better grades of stock. Good roses of all varieties are scarce. American Beauties have been most in demand, and all grades, except the extra long stemmed, are higher priced. A few very good outdoor Jacks are in the market and find ready sale at \$2 to \$4 per hundred. Meteors, Perles and Kaiserins have all sold well. A large proportion of the Brides and Bridesmaids are of such poor quality that they are practically worthless. Longiflorum lilies and peonies have been plentiful. Klehm's Nursery and A. Kennicott, two of the largest peonia growers, report the sale of peonies last week to have been about 25% larger than they were for the corresponding week of last year. Carnations have not been in large supply this week, and have sold out well, in fact not in two years has there been a time when the wholesale houses were cleaned out so early and so regularly as they have been in the past two or three days.

Garden flowers have been in good supply and have sold well, sweet peas being the favorites of this class and about the best selling flower in the market. Enormous quantities have been disposed of during the past week at from 25 to 40 cents per 100. The demand for flowers for school commencements this season has been fully up to that of any previous year. A much larger stock has been on the market and lower prices have prevailed. After this week the stock of roses and carnations will be greatly reduced, as will the old stock of roses that have been held to produce a crop for this week will be either thrown out or dried off preparatory to replanting. The heat has about blasted the carnation plants in the greenhouses, and but few flowers can be expected of them hereafter.

Mr. Buettner and family will leave for a trip through Europe, commencing as usual with Mr. Buettner's business. They sail from New York on the 10th inst.

Ed Hunt is enjoying an outing at the residence of Ed

Friedman & Allen, Michigan avenue and Jackson boulevard, have sued every person connected with the management of last winter's big horse show in an endeavor to collect \$170 for flowers used for the decoration of the stalls of Joe Patchen, Star Pointer and Elloree.

Visitors: H. M. Sanborn, Oakland, Cal.; R. E. Evans, Salt Lake City, Utah; J. Zoellner, Oak Grove Greenhouses, LaCrosse, Wis.; Thomas Meehan, Jr., Philadelphia.

Isaac Friedman, of O. J. Friedman & Bro., will sail for Europe July 2.

### London.

GREAT SUMMER SHOW AT THE TEMPLE GARDENS.—CRIMSON RAMBLER ROSE VERY POPULAR.—NEW MALMAISON CARNATIONS.—JACKMAN'S HYBRIDS OF CLEMATIS COCCINEA—NEW FERNS AND AZALEAS.—VALUABLE ORCHIDS STOLEN.

The great summer show held at the Temple gardens under the auspices of the Royal Horticultural Society was a great success this season. This gathering has now become one of the most important horticultural events of the season and brings together a big assemblage of the craft. Although exhibitors are under a disadvantage owing to the limited space, all classes of plants were well represented and it would have been difficult to have made better use of the space. Orchids as usual were a great feature, but not quite so extensively shown as on some previous occasions. Roses were well shown and among them some fine examples of Crimson Rambler. This has proved one of the most valuable plants for florists' work of recent introduction. No doubt we shall get more growers to take it in hand in the future, but at present it commands a higher price than almost any flowering plant in the market. H. B. May has been one of the most successful growers.

A group of Malmaison carnation Princess of Wales was a great feature of the show and carried grand blooms of a deep rose pink on plants of remarkable vigor. These came from Leopold de Rothschild. Messrs. Cuthbert also showed some good varieties of Malmaison. And Chas. Turner had some good things in carnations. Tuberosus begonias were well shown by several exhibitors. A marvelous advance has been made especially in the double varieties. A most interesting feature of the show was a large group of phyllocladi, including a large number of hybrid varieties, which showed a great diversity of bright colors. If these would only stand well they would soon be great favorites with florists. The above came from James Veitch & Sons, who also showed one of the finest groups of calladiums I have ever seen.

A very pretty exhibit of sweet peas came from one exhibitor, about fifty varieties including some very distinct colors. Clematis were wonderfully well shown by Messrs. Smith & Co., of Worcester. These are well worth more attention for florists' work. Two year old plants of the C. patens type are the best for small pots, they always flower freely, and only require a little extra warmth to have them in early in the season. Messrs. Jackman's hybrids of Clematis coccinea were very interesting, but they require further improvement in point of color before they will be of much value to florists. Messrs. Sander & Co. staged a fine group, the chief feature being their new *Acadylpha Sanderiana*. I think there is a great future for this plant. I understand it flowers as freely in winter as in summer, and the long racemes of rich

crimson are well shown off with bright green foliage. I shall be disappointed if this does not prove a useful plant. Ferns were well shown by three growers, but few novelties appeared.

Mr. May's new plebodium was an exception. This is a variety from P. glaucum with broad pinnae deeply lobed along the margins, the lobes overlapping each other. This was certainly one of the greatest novelties in the exhibition. Pteris Drinkwateri, an improved form of P. major, is certainly a good fern and will take the place of Ouvrardii which hitherto has been the best variety of P. cretica major, and one of the most popular ferns we have for market. Messrs. Cuthbert staged some fine hybrid varieties of Azalea mollis which should prove valuable for florists' work. A great variety of hardy flowering plants were exhibited but in a limited space it is not possible to refer to all the good things seen.

A most regrettable incident occurred at the close of the show, one exhibitor having some very choice orchids stolen. I am told that one of the plants lost was valued at three hundred guineas, or about \$1,500.

HOLBORN.

### Passing Events in Denmark.

The question of trade schools for young gardeners has for several years been under consideration by the Society of Danish Gardeners (the term "gardener" embracing all branches of the trade) and schools were started in Copenhagen and Odense in 1896. As now arranged they are evening schools and operated during the five months October to February, two winters making one course. The teaching embraces: "General Instruction in Horticulture," "Management of Nursery and Orchard," "Culture of Flowering and Ornamental Plants," "Foreing Fruits and Vegetables" and "Drawing." The school terminates with an examination, the result of which is published in the organ of the society, and each graduate receives a diploma recognized by the society.

The intention with these schools is to give the young members of the craft the much needed theoretical instruction in as cheap and good a way as possible. The tuition fees are very low and the time, from 7:30 to 9:30 four evenings a week, enables the young men to attend to their regular duties and yet have time left for study. In order to obtain good books for these trade schools the committee in charge offered generous prizes for each course, the chief demands being conciseness and clearness, and in this way excellent manuals were obtained.

The young men show a praiseworthy interest in this work, and to foster it the instruction is made as interesting as possible. Once in a while some of the veteran horticulturists visit the schools to see how things are progressing and to give some good practical advice and relate interesting incidents of their experience. The schools here referred to have no relation or connection with the government horticultural school, which is a more scientific institution, while these are intended for the practical gardeners in general.

The horticulture of Denmark suffered quite a loss this spring in the death of Professor of Botany Joh. Lange, at the advanced age of 80 years. He was a very able man. From 1856 to 1876 he was director of the botanical garden and connected with the royal horticultural school from 1878 to 1893. He was one of the



founders and for a long time one of the presidents of the Danish Botanical Society. In 1856 he was chosen to continue the great national illustrated botanical work, "Flora Danica," which had been in preparation during the reigns of six kings, and he succeeded in completing it. In addition to this he was a prolific writer on general botany.

The old question of fewer hours and more pay has been giving some trouble in some of the commercial places in Copenhagen this spring, resulting in a partial strike, about one-fifth of the employes leaving work. The difficulty was, however, soon settled, the men in most cases getting what they asked for.

The season so far has been cool and rather wet, but with sufficient dry weather for sowing and planting, and the present prospects are in favor of bountiful crops.

H. HANSEN.

### St. Paul.

The last month of the season for the florist business finds trade good and everything encouraging. A brief retrospect of the season shows that fall trade was fairly good, chrysanthemums selling well both as cut flowers and as potted plants. Winter trade was excellent; the mild weather reduced coal bills quite materially and increased the crop and everything sold at good figures. While the spring was cool and backward, it was favorable to trade as a whole. Trade at Memorial Day was very satisfactory. In the cut flower line, stock was abundant and of good quality. Outdoor stock was not plentiful here and this helped to maintain prices. Carnations were in good demand, also roses, lily of the valley, gardenias, etc. The cemeteries were laden with flowers and potted plants and the heroes were remembered as never before. Following close after Memorial Day was the first batch of June weddings and after them came the commencements, where every sweet girl must have from one to twenty bouquets and baskets of flowers. This, with the usual amount of funeral work, has kept most of the brethren busy.

A few days of hot weather has hurt the roses considerably and good stock is not plentiful. Some good carnations and sweet peas are coming in, while some choice auratums—the queen of all the lilies—are now in the market.

In the plant line, nearly every one is cleaned out of salable stock. This is a good index to the season's trade, though there is the usual amount of grumbling about low prices, etc. A great many plants are sold at the stands at the city market, where rent and other expenses are very light. A few of the growers, and some of those with the best stock, were foolish enough to cut prices at the beginning of the season, thus injuring their own trade as well as that of others. Good 4-inch geraniums have sold this season as low as 75 cents per dozen, although the average price at retail was from \$1.25 to \$1.50. Pansies were the best sellers, with geraniums, heliotrope, ageratum, vincas, etc., in good demand. Cannas have sold well and are becoming more popular each year for bedding purposes and massing on the lawn.

L. L. May & Co., handled several thousand cannas this year, including the standard varieties as well as several of the novelties. In the reds, Bouvier and Pierson are the favorites. In yellow Count DeBonchard is far ahead up to date, with Souvenir d'Antonin Crozy as a great improvement over Queen Charlotte for that type. Burbank produces immense

trusses of bloom of pure yellow which fade very quickly. Champion and Duke of Marlboro show up in magnificent form and are real acquisitions. Klondike is an elegant plant with a pretty bloom of very large size. Maiden's Blush is a new and distinct color in the canna family, which should become very popular unless it fades badly.

Work at the parks is progressing rapidly and should be finished in a week or ten days. A great many cannas have been planted, which should produce a grand effect later in the season. Hardy stock is just now at its best, paeonies, weigelas, syringas, snowballs and roses being in the zenith of their flowering period.

C. A. Smith, of Minneapolis, was a recent caller and reports a very gratifying spring trade. He is just completing his order with the park board which called for upwards of 50,000 plants.

A. S. Swanson, of St. Paul, has opened a branch store in Minneapolis and is doing a nice business there.

G. J. Krowell, of C. J. Speelman & Sons, Holland, was a recent visitor and reports a very gratifying trade in all lines of bulbs.

J. E. Killen, representing C. H. Joosten, New York, dropped in recently. He had a well filled order book and reported business as booming.

Fred. Bussjaeger contemplates erecting three new rose houses this season, each 20x60.

FELIX.

### Omaha.

At the monthly meeting of the Nebraska and Iowa Florists' Club, S. B. Stewart, seedsman and florist, of Omaha, was unanimously chosen as superintendent of exhibits at the S. A. F. meeting to be held here in August.

J. F. Wilcox, of Council Bluffs, Ia., is looking forward to increased trade in business as he is extending five houses 24x130 which he built last year, making them 24x200 and building two additional ones 24x200 and also a violet house of the same length. They are all built on modern principles, with butted glass with zinc joints. He will use 50,000 feet of glass 16x24.

Rose stock in this locality is generally in very good condition.

Members of the Florists' Club are putting in considerable time in practice bowling and are making some fair scores. Here is the score made June 21:

	1st.	2d.	3d.
A. Donahue, Sr.,	188	150	130
J. F. Wilcox,	159	177	157
Louis Henderson,		138	155
Glen Hodson,	154	117	132
A. Donahue, Jr.,		175	167
J. H. Hadkinson,		138	142
R. H. Davey,	164	137	173
George Swoboda,	158	148	212
S. B. Stewart,	151	105	134
George Zimmers,	113	135	149
P. Paulson,		131	179

The horticultural and floricultural display at the Trans-Mississippi Exposition is keeping up well under the spell of warm weather. California, Missouri, Illinois, Iowa, Nebraska and Oregon fruit growers are well represented by their native fruits. California has a display of oranges. Missouri, Illinois, Iowa and Nebraska each have a splendid exhibit of apples. Nebraska heading the list with sixty-two distinct varieties. Illinois fruit is highly colored and the arrangement of the same with mirrors for a back ground gives a pleasing effect. Oregon as yet is not fully represented as her season is just

commencing. Kansas and Colorado and several other states are preparing to make a fine display.

The floral display is being augmented daily. Among the leading exhibits is that of W. J. Hesser, of Plattsmouth, Neb., a fine *Cycas circinalis* and a very large *Agave Americana*. The aquatic exhibit of Dreer & Co., of Philadelphia, is making a good showing, several nymphaeas being in blossom. The *Victoria regia* is showing up well and now making good leaves.

H. H.

### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want ad. free to be used at any time during the year.

**SITUATION WANTED**—Have had 12 years' experience with roses and general greenhouse work. Single. Address B 101, 401 Girard Ave., Philadelphia.

**SITUATION WANTED**—Sept. 1st by a No. 1 palm artist with a general knowledge of floriculture. Strictly temperate and reliable; no tobacco; single man. For particulars address D. A. care American Florist, Chicago.

**SITUATION WANTED**—As working foreman, by a first-class grower of roses carnations, mums, etc. Also a good all-around man; German, single; 14 years' experience. Sober and reliable. Best of references. Address B. SCHELLER, Standish, Minn.

**SITUATION WANTED**—By successful rose grower, who devoted all his lifetime especially to rose culture; competent to take entire charge commercial place. To suitable parties the greatest satisfaction assured. PRACTICAL ROSE GROWER 42 Peoria St., Chicago.

**WANTED**—Two men to work in greenhouses; state wages wanted with board. Address Box 915, Peoria, Ill.

**WANTED**—An assistant grower to take charge when necessary. State experience and wages expected. Address W K care Am. Florist.

**WANTED TO LEASE**—300 to 500 feet of flats and dwelling house, in New England or in New York State; in town of 15,000 or more population. Address S, care American Florist, Chicago.

**FOR SALE CHEAP**—Only greenhouse in town of 4000 in Southern Michigan. Good reason for selling. Address C. H. PICK, Hudson, Mich.

**FOR SALE**—First-class retail stand, about 5000 feet of glass; new. Has never paid less than \$1000 per year net. Will require \$1000 cash, balance time at 8 per cent. Reason for selling, falling health. Address ILLINOIS, care American Florist.

**FOR SALE**—Four greenhouses, nearly new, splendid retail stand, near business center in residence district on road to cemetery, paved street. Terms easy. Must retire on account of poor health. Address A. CLAUS, 563 N. 4th St., Springfield, Ill.

**FOR SALE**—Three No. 16 Hitcheins, 2 Smith & Lynch boilers in good condition. Also a lot of 4-inch cast pipe as good as new, and a No. 10 Furman boiler, been used one season. Apply to DAVID SMITH, Box 201, Welleley, Mass.

### FOR SALE!

Three greenhouses; plots in fine shape in the city limits of the best mining town of America; must sell; have mining interests. Address 528 So. 1st St., Cripple Creek, Colo.

### FOR SALE AT A BARGAIN

Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots 35 ft. front; water, gas and electric light on street; greenhouses, office and barn all newly built with all conveniences; heated by steam. Centrally located in city of 15,000 population in State of Indiana. Competition none to speak of. Lending establishment in the city. Sickness cause of selling. Address INDIANA, care American Florist.

### FOR SALE!

The largest greenhouse plant in Texas. As we have decided to devote our whole attention to our seed business, we offer our greenhouses and 10 acres of land for sale. Have 15,000 square feet of glass, all perfectly new and built with all modern improvements. Will sell land, greenhouses and stock or greenhouses and stock and rent land. We have the largest trade in plants and cut flowers in Texas. Purchaser will step into a first-class established business. This is a chance that is seldom offered. Write for particulars if you mean business to TEXAS SEED & FLORAL CO., Dallas, Texas.

### CHICAGO LOTS FOR SALE.

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot; sewer and water. Suitable for greenhouse purposes.

P. F. HAYNES & CO.,

Telephone L. V. 247. 1004 Wellington St., Chicago.

# FORCING BULBS

We have closed contracts with some of the best and most reliable producers for our stock of Roman Hyacinths, Tulips, Dutch Hyacinths,

Von Sion Narcissus, Paper White Narcissus, Valley, Harrisii, Longiflorum, Azaleas, and all leading Forcing Stock. Give us a list of your wants and we will quote same.

DON'T FORGET THAT WE ARE STRICTLY IN IT ON SUPPLIES OF ALL KINDS, SEEDS, BULBS AND CUT FLOWERS.

VAUGHAN, McKELLAR & WINTERSON, 45, 47 and 49 Wabash Ave., CHICAGO.

**E. H. Hunt**  
THE "OLD RELIABLE" FOR  
**WHOLESALE CUT FLOWERS**  
Hunt's Flowers  
Go Everywhere  
76 Wabash Ave., CHICAGO.

## Wholesale Flower Markets

CHICAGO, June 24.

Roses, Beauties.....per doz.	75@2.50
" Brides.....	1.00@ 4.00
" Meteors, Kaiserins.....	1.00@ 4.00
" Bridesmaids.....	1.00@ 4.00
" Gontiers, Perles.....	1.00@ 3.00
Carnations, common.....	40@ 1.00
" fancy.....	2.00@ 3.00
Marguerites.....	50
Lily Oratum.....	8 00
Harrisii, Callas.....	2.00@ 4.00
Lily of the valley.....	1.50@ 4.00
Sweet peas.....	25@ .40
Gladioli.....	4.00@ 6.00
Adiantum.....	.50@ 1.00
Smilax.....	8.00@ 10.00
Asparagus.....	40.00@75.00
Panicles.....	.50
Panicles.....per dozen.	.25@ .50

**KENNICOTT BROS. CO.**  
**WHOLESALE CUT FLOWERS**  
AND FLORISTS SUPPLIES.  
WIRE WORK  
A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING**  
**Wholesale Cut Flowers**  
51 Wabash Avenue,  
W. S. HEFFRON, Mgr. ....CHICAGO.

**A. G. PRINCE & CO.**  
**Wholesale Cut Flowers**  
AND FLORISTS' SUPPLIES.  
Agents for the Hinsdale Rose Co. Special attention  
paid to shipping orders.  
88 & 90 Wabash Avenue,  
Telephone Main 3208. CHICAGO.

**Smith**  
**WHOLESALE FLORIST.**  
19-21  
E. RANDOLPH ST.  
CHICAGO

WHOLESALE DEALER IN  
GROWER OF ROSES. CUT FLOWERS.

## J. A. BUDLONG

37-39 Randolph St., CHICAGO.

**ILLINOIS CUT FLOWER CO.**  
**Wholesale Florists.**  
**J. B. DEAMUD**  
51 & 53 WABASH AVE. CHICAGO.

**A. L. RANDALL**  
**Wholesale Florist**  
Don't Forget that we are at 4 Wash-  
ington St., Chicago.  
Write for special quotations on large orders.

**WIETOR BROS.**  
SUCCESSORS TO  
ROGERS PARK FLORAL CO.  
Wholesale  
Growers of **CUT FLOWERS**  
51 WABASH AVENUE,  
Headquarters  
For American Beauties. ....CHICAGO

**JAMES M. KING**  
Commission Dealer in  
**CUT FLOWERS.**  
Good Money for your Flowers.  
Good Flowers for your Money.  
49 WEST 29TH ST., NEW YORK.  
TELEPHONE 1675 38th St.

It is not much trouble to mention the AMERICAN FLORIST when corresponding with an advertiser.

**S. B. WINTER,**  
(Successor to WINTER & GLOVER.)  
21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
PACKED RIGHT,  
so they will reach you in just as good condition  
as they reach us.  
**WIRE DESIGNS: A Full Line.** Write us for  
our illustrated Catalogue.

# REINBERG BROS.

WHOLESALE GROWERS OF

## Cut Flowers.

600,000 FEET OF GLASS. We grow our flowers on short notice with all leading varieties of Roses and carnations. We are headquarters for Fine American Beauties. Write us as a trial and enjoy yourself.

WE STILL HAVE FINE MCGOWAN CARNATION PLANTS AT \$1.00 PER 100; \$7.50 PER 1000.

15 cent and cuttings sent to you at plant rates 30 percent less than most florists.

REINBERG BROS., 51 Wabash Avenue, Chicago.

Our American Beauties are vigorous young plants free from Black Spot.

	Per 100	Per 1000
American Beauties, 2 1/2-in.	\$4.00	\$35.00
" " 3-in.	5.00	45.00
Meteors..... 2 1/2-in.	2.50	22.50
" " 3-in.	3.50	30.00
Brides..... 2 1/2-in.	2.50	22.50
" " 3-in.	3.50	30.00
Bridesmaids..... 2 1/2 in.	2.50	20.00
" " 3-in.	3.50	30.00
Testout..... 2 1/2-in.	2 50	22 50
Belle Siebrecht..... 2 1/2 in.	2.50	22.50
Pres. Carnot..... 2 1/2 in.	2 50	22 50
La France..... 2 1/2 in.	2.50	20 00
Perle..... 2 1/2-in.	2.50	22.50

SMILAX PLANTS, \$2 per 100; \$15 per 1000.

# MacDonald & McManus

... SUPPLY ...

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EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING  
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE  
2778 38TH STREET.

50 West 30th Street, NEW YORK CITY.

## TRAENDLY & SCHENCK, Wholesale Florists,

Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.

38 West 28th St., and Cut Flower Exchange,  
Tel. 961 18th Street. NEW YORK CITY.

## M. A. HART, Commission Dealer in Cut Flowers,

44 WEST 29TH STREET,  
NEW YORK CITY.

THE BEST MARKET IN NEW YORK.  
Phone 1307 38th St.

## Wholesale Flower Markets

NEW YORK, June 22.

Roses, Beauties, Hybrid	2.00@16.00
" Bridesmaids, Testouts, Brides	.50@3.00
" Morgans, Meteors	.50@2.00
Carnations	.30@1.50
Lily of the valley	1.00@3.00
Sweet peas, per 100 bunches	1.00@1.50
Harrisli	3.00@4.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	40.00@50.00
Paeonias	.50@2.00

BOSTON, June 22.

Roses, Beauties	5.00@15.00
" Morgans, Meteors	2.00@4.00
" Brides, Bridesmaids	1.00@5.00
Carnations	.25@1.00
Lily of the valley	2.00@3.00
Corndowers	.50@1.00
Harrisli	3.00@5.00
Sweet peas	.10@.20
Smilax	12.00@15.00

PHILADELPHIA, June 22.

Roses, Beauties	1.00@20.00
" Jacobs	1.00@3.00
" Teas	2.00@6.00
Carnations	1.00
Paeonias	2.00@4.00
Lily of the valley	2.00@4.00
Harrisli	4.00@6.00
Sweet peas	.40@.75
Cattleyas	35.00@50.00
Smilax	15.00@20.00

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BRIDESMAID, BRIDE.  
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112 and 114 West 24th Street,  
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BRIDES.  
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WHOLESALE COMMISSION,  
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NEW YORK.**  
Cut Flower Exchange.

**Buffalo.**

THE CROPS AND THE MARKET.—VISITORS.—A TRIP TO LANCASTER.—WORD FROM WARRIOR GEORGE STEPHAN.

The supply of carnations still keeps up and the quality is good, but in about another week the crop will be virtually exhausted, and the fortunate grower whose crop holds out can then get his own price. Paeonies are nearly all passed. Sweet peas are in over-supply and are not in much demand. There is some fine iris coming in from Brookins, of Orchard Park; the colors and quality are unusually good. The sale of flowers is about one-third what it was in former years because the schools do not allow flowers to be sent to the halls. Still, orders come in for the better quality of flowers.

George Asmus, formerly of Buffalo, but now with Herman Schiller, of Chicago, paid us a visit last week. He is looking well and evidently enjoys the breezes of Lake Michigan.

A visit to Lancaster last week found W. J. Palmer, Sr., busy building new houses and overhauling the old ones. When the improvements are completed it will be worth any one's time going out to see his place, which Mr. Palmer is always pleased to show to visitors. If the owner is absent his general superintendent, B. S. Myers, will always be found ready to do the honors. S. B. Smiley's greenhouses are being repaired and new benches are being put in for early planting.

The florists in the vicinity of Pine Hill have had a busy season with vases for the several cemeteries out that way.

George Stephan, an employe of Wm. Buechi, has gone with the 65th Regiment to fight for his country, and in a recent letter from him reports good health. W.

MARSHALLTOWN, IOWA.—E. M. Van Schaick has sold out his business as Riverside Floral Co., and will endeavor to settle claims.

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1 1/2" x 1/4" 25¢ per 100 feet warranted 5 years  
1 3/4" x 1/4" 30¢ per 100 feet warranted 3 years  
2" x 1/4" 40¢ per 100 feet warranted 2 years  
3" x 1/4" 60¢ per 100 feet for use

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CINCINNATI, June 23.

Roses, Beauties, select.....	15 00
" " medium.....	8 00@10 00
" Brides, Bridesmaids.....	2 00@3 00
" Meteoras.....	3 00@4 00
" Perles.....	2 00@3 00
Carnations.....	75
" fancy.....	1 00
Sweet peas.....	25
Gladst.....	3 00
Smilax.....	10 00@12 50
Adiantum.....	1 00
Asparagus.....	50 00

ST. LOUIS, June 23.

Roses, Beauties.....	2 00@20 00
" Meteoras.....	2 00@3 00
" Brides, Bridesmaids.....	2 00@3 00
" Perles.....	2 00@3 00
" Kaiserlins.....	2 00@3 00
Carnations.....	50¢@1 00
Violets, California.....	35
" double.....	35
Lily of the valley.....	2 00@3 00
Harrall.....	6 00
Calins.....	5 00@6 00
Smilax.....	15 00

MILWAUKEE, June 23.

Roses, Beauties.....	5 00@20 00
" Brides, Bridesmaids.....	2 00@4 00
" Perles.....	1 00@3 00
" Meteoras.....	2 00@4 00
Carnations.....	50¢@1 00
Lily of the Valley.....	2 00@3 00
Sweet peas.....	25
Perles.....	2 00@4 00
Margherites, yellow.....	25¢@50
Smilax.....	10 00@12 50
Adiantum.....	50¢@1 00
Asparagus.....	50 00

BUFFALO, June 23.

Roses, Beauties.....	5 00@25 00
" Brides, Bridesmaids.....	2 00@6 00
" Meteoras.....	2 00@6 00
" Perles Niphetos.....	1 00@2 00
" Kaiserlins.....	3 00@6 00
Carotions, white and colored.....	50¢@1 00
" fancies.....	1 00@2 00
Lily of the valley.....	4 00
Sweet peas per dozen bunches.....	50¢@75
Smilax.....	12 50@15 00
Adiantum.....	1 00@1 25
Asparagus.....	50 00@75 00

LOUISVILLE, June 23.

Roses, Beauties per dozen.....	1 00@2 00
" Brides, Bridesmaids.....	2 00@3 00
" Meteoras.....	2 00@3 00
" Kaiserlins.....	2 00@3 00
" Perles.....	2 00@2 50
Carnations, fancy.....	2 00@3 00
" common.....	1 00@2 00
Lily of the Valley.....	50¢@2 50
Calins, per dozen.....	75¢@1 00
Sweet peas.....	15¢@20
Mignonettes.....	75
Margherites.....	50
Smilax per dozen.....	1 25@2 00
Adiantum.....	75
Asparagus per string.....	60

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St. Louis.

THE WEATHER, STOCK AND TRADE.—REPLANTING WELL UNDER WAY.—CARNATIONS ARE LOOKING WELL.—VIOLET GROWERS ARE RESORTING TO THE USE OF POTS.

During the past week trade has been mainly due to commencement exercises and to weddings, which seem to be coming on later than usual this season. Continued warm weather has had its effect on stock. Sweet peas have been steadily growing poorer and are about over for the season; carnations are getting smaller and smaller, and the only good things in roses are some of the better summer varieties, such as Kaiserin and Testout.

Replanting is under full swing and most growers are getting their stock in from two weeks to a month earlier than usual, having found the growth last season extremely unsatisfactory on late planted stock. Carnations in the field are looking well, they have nearly all had one topping; owing to the abundant moisture, they have broken well and promise to make good plants. Violets are also looking well with the exception of the small single variety, which with some growers is not standing so well as is Marie Louise. Quite a number of growers are carrying violets in pots, expecting to get an earlier crop of flowers than from the field-grown stock, which last season, owing to the dry summer and fall, was very late in coming into flower. It is to guard against a repetition of the shortage that pot violets are being tried.

The committee appointed by the Florists' Club to arrange for our annual outing, have about decided to hold it at Croeue Coeur Lake, some time during July. Fuller particulars will be arranged later R. F. T.

MACOMB, ILLS.—J. B. Keefer is about to erect a fine greenhouse upon the site of the old Normal building.

NEW TRAIN SERVICE TO BUFFALO.

Nickel Plate Road train No. 6, from the Van Buren street Passenger Station, Chicago (on the loop), 2:55 p. m. daily, with Buffalo sleeper arriving in that city at 7:40 the following morning. Through New York sleeper on same train, via Lackawanna Road, Buffalo to New York, arriving early the next evening. Three through trains daily, at convenient hours, to Ft. Wayne, Cleveland, Erie, Buffalo, New York and Boston. Rates lower than via other lines. City ticket office, 111 Adams street and Auditorium Annex. Telephone Main 3389. (33)

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**The Park and Outdoor Art Association.**

The second annual convention of this society was in session at the West Hotel, Minneapolis, June 22, 23 and 24. There were nearly fifty members in attendance, including park superintendants, landscape architects and lovers of nature from New York to Salt Lake and from Duluth to New Orleans. In the absence of Pres. J. B. Castleman, of Louisville, Vice-President L. E. Holden, of Cleveland, presided and appointed the following committees: Auditing—E. J. Parker, Quincy; T. W. Kelsey, New York; Dr. W. W. Folwell, Minneapolis.

Publication—O. C. Simonds, Chicago; J. C. Olmsted, Boston; J. A. Ridgeway, Minneapolis, and Secretary Manning. Finance—L. E. Holden, Cleveland; E. B. Haskell, Boston; J. H. Patterson, Dayton, Ohio.

Resolutions—Secretary Manning, Lewis Johns in, New Orleans; G. Wahl, Milwaukee.

The several sessions were made noteworthy by the presentation of a number of eminently practical papers by men of wide experience. The social features of the convention included a reception by Mayor Pratt, of Minneapolis, a reception by the Minneapolis Improvement League, a banquet at the West Hotel, excursions by carriage through the park systems of the Twin Cities, and a trip to St. Anthony park, where the Minnesota State Horticultural Society was in session.

Detroit was selected for the next meeting.

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No man more thoroughly deserves the esteem of his fellow workers than does Franklin K. Phoenix, who is probably the oldest nurseryman in America, having embarked in business at Delavan, Wis., in the spring of 1812. Mr. Phoenix was born in Perry, Genesee county, N. Y., in March, 1825. His parents moved to Wisconsin in March, 1837. After a decade of business activity Mr. Phoenix started a branch nursery at Bloomington, Ill., where he concentrated his efforts from 1854 to 1877. After ten years of inactivity he re-embarked in business at Delavan, where he is now completing his fifty-seventh year of horticultural endeavor. In 1859 Mr. Phoenix married Miss M. E. Topping of Darien, Wis. They have four sons and two daughters. The oldest son, Samuel T., served four years with J. C. Vaughan, and is now mining in Utah. The second son, F. S., is the only one to adopt his father's calling as his life's pursuit. He is now proprietor of the big Bloomington nursery started in 1852

Despite the weight of his seventy-three years, Mr. Phoenix is energetically prosecuting business undertakings and enjoys a thriving trade. He handles general nursery stock but makes a specialty of hardy roses grafted on a native stock



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  - 20,000 Compota, Globe and other dwarf Arbor Vitæ, all sizes.
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  - 2,000 European Silver Fir, 2 to 4 feet.
  - 5,000 Hemlock Spruce, 1 to 4 feet.
  - 10,000 Norway Spruce, 3 to 8 feet.
  - 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
  - 5,000 Irish Junipers, 1 to 2½ feet.
  - 10,000 Pines, Austrian, Scotch, Excelsa, White and dwarf varieties, all sizes.
  - 1,000 Euonymus Japonica, 18 to 36 inches.
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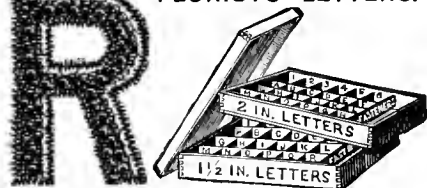


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## Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters. 1 1/4 or 2-inch size, per 100, \$5.00.  
Script Letters. \$4. Fastener with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treasurer and Manager,  
84 Hawley St., BOSTON, MASS.

FIRST QUALITY

## HARDY CUT FERNS

NEW CROP arriving daily, \$1.50 per 1000 - Discount to wholesale jobbers. Prince's Pine, 6c per lb. Handquaters for Galax Leaves. Laurel festooning, 4 to 8c per yd; Laurel and Prince's Pine Wreaths for Decoration Day, made to order. Fine green Moss in bbls, \$1.00; in sacks, 75c. Our goods are always the best to be obtained for the money. Prompt attention to all orders. Send in your orders now for Ferns for Decoration Day and you will be sure to have them.

### Crowl Fern Co.

27 Beacon Street, - BOSTON, MASS.

BRILLIANT GREEN AND BRONZE

## GALAX LEAVES,

For Decorating and all Florists' Designs

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

## SMALL GREEN GALAX

For use with... VIOLETS

Stiff, wiry stems. Work up beautifully. Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000.  
...ADDRESS...

HARLAN P. KELSEY,  
1150 Tremont Bldg., - BOSTON, MASS.

## HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, Bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

## John Conley & Son,

Manufacturers of

## TIN FOIL

2 AND 4 DOMINICK STREET,

New York.

## SHADING PAPER

Weather Proof Paper, ready for use on sash or greenhouses. Unexcelled for Palm, Fern or Propagating houses. It will outlast plant bed cloth considerably. Comes in rolls about 16 pounds in weight, 38-inches wide, 25 yards long at NET \$2.50 the roll.

August Rölker & Sons,  
Sole Mfrs. Agents, - 52 Dey Street, NEW YORK.

## H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

### H. BAYERSDORFER & CO.

50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

## Have You Seen Our Agent?

A Complete Catalogue for Florists. Send for One.

ELLIS & POLLWORTH  
MILWAUKEE, WIS.

## M. Rice & Co.

Exclusive Importers and Manufacturers of...

### Florists' Supplies

25 N. 4th Street, - PHILADELPHIA, PA.

## Black Ants...

Easily and thoroughly exterminated by non-poisonous and odorless powder. Results guaranteed. 1/2 & 1-lb. pkgs. 50 and 90 per doz. 10 percent disc. L. O. B. Boston.

Mention GEO. H. RANDALL  
American Florist. WELLINGTON, MASS.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOLGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

CONNECTICUT growers now report drought.

MR. CHARLES P. BRASLAN is enroute to California.

THE Salzer advertising car is now at the Omaha Exposition.

MR. JOS. A. BOLGIANO, not F. W., was elected first vice-president of the American Seed Trade Association.

J. C. BUCHER & Co., seedsmen, Atlanta, Ga., have suspended payment. Their business has been closed by the sheriff.

MR. AND MRS. A. RHOTERT will sail for Europe on the Pennsylvania to Hamburg June 25 for a two months trip.

E. V. HALLOCK and family, with Miss Mary E. Martin, sail June 25 for a trip through Ireland, Scotland, France, Switzerland and Germany.

RECENT advices indicate that the wet spring in Holland has injured the hyacinths, and that bulbs will likely be higher in price at delivery time, and not as large as last year.

CANADIAN pea and bean growers report crop conditions in their section and in northern New York as being favorable to date. There has been plenty of rain with no damage, but it is still too early to make any definite forecast.

OWENSBORO, KY.—A chrysanthemum show will be given here in the middle of November. The premium list was issued some days ago and no plants will be awarded prizes unless the exhibitors owned them on June 15.

COLD STORAGE VALLEY ALWAYS ON HAND.

CASES of 2500 pips, extra quality, \$25.00; per 1000 \$12.50  
CASES of 3000 pips, good quality, \$25.00; per 1000 \$10.00

GLUCAS & BODDINGTON CO.,  
501 & 503 West 13th St., NEW YORK CITY.

SEEDS LAWN GRASS \$12.00 per 100 lbs.

Finest Quality Ever Offered Retail at 30c lb.  
J. CHAS. McCULLOUGH, SEEDSMAN,  
RECLEANER AND JOBBER GRASS SEEDS  
North-East Corner Second & Walnut Sts., Cincinnati, O.  
Send for Illustrated Catalogues.

**BURPEE'S SEEDS PHILADELPHIA.**  
Wholesale Price List for Florists and Market Gardeners

**"BEST OF ALL" TOMATO "ENGLISH" MELONS**  
FLOWER SEEDS FOR FLORISTS  
Catalogue on application  
**WEEBER & DON,** Seed Merchants and Growers,  
111 Chambers St., NEW YORK, N. Y.

NO MIS-STATEMENT

UNDER date of Boston, June 14th, Jos. Breck and Sons Corporation intimate a mis-statement in our recent letter to the trade. The following extract from a contract existing between the Braslan Seed Growers Co. and Jos. Breck & Sons Corporation, would seem to be the best evidence of our rights and has been accepted as conclusive by the U. S. Postmaster at Chicago after a careful hearing.



"The said Charles P. Braslan and Sherman W. Callender, under the firm name of Braslan Seed Growers Co., or any Corporation which shall be organized by said Braslan and Callender or by either of them under the name of Braslan Seed Growers Co., shall have the right after May 1st, 1898 and so long as said Charles P. Braslan shall be connected with said firm or corporation, of describing themselves or itself as successor of the Chicago Branch of Jos. Breck & Sons Corporation with the right to open all mail addressed to the Jos. Breck & Sons Corporation at Chicago and with the right to appropriate and have the benefit of all such mail matter pertaining to the crop of 1898. But inquiries or communications relating to seeds of which the Chicago Branch of Jos. Breck & Sons Corporation had a surplus on June 1st, 1898, are to be forwarded to said Jos. Breck & Sons Corporation at Boston until such time as said surplus shall be disposed of."

We turn over to that Corporation all such mail not of interest to us and frankly admit that our agreement applies to 1898 crops. As the Braslan Seed Growers Co. propose making their first season's deliveries of new crop seeds should we receive, which we hardly anticipate, inquiries for seed crops of 1897, 1896 or other successors, as already arranged for.

My former customers, friends in the trade and others who may expect to require seeds of THIS SEASONS CROP on a basis of close contract prices are cordially invited to correspond with the undersigned as above.

Yours Truly,  
**CHARLES P. BRASLAN.**



**RAFFIA** BEST QUALITY, LONG MADAGASCAR

Notwithstanding the higher market on this item I am still offering at the old figure so long as present stock lasts  
In bale lots (about 225 lbs.) at \$c  
100 lbs. or over at..... 9c  
50 lbs. or over at..... 10c  
25 lbs. or over at..... 11c  
10 lbs. or over at..... 12c  
Less than 10 lbs. at 15c per lb., f. o. b. Philad.; net terms and subject unsold on receipt of order.

This exceptional opportunity for buying a supply of fine quality at a low rate should not be neglected. All commissions, large or small, will receive the same careful attention.

**Grafting Wax**  
Trowbridge's Celebrated Grafting Wax, the genuine article, 1 lb. bars at 19c; 1/2 lb. bars at 26c; 1/4 lb. bars at 26c per pound. Rebates: 10 lb. lots, 5 per cent; 25 lb. lots, 10 per cent; 50 lb. lots, 15 per cent; 100 lb. lots, 20 per cent. Address all orders and correspondence to Juniper and Walnut streets, Philadelphia, Pa.

**G. C. Watson,**  
Seedsman.

**Seed Stores and Flower Stores..**  
We probably handle our ODDER-LESS PLANT FOOD. Write for testimonials and free sample, 100 per cent. profit guaranteed.  
We furnish Pure Bone Meal for Florists use. Guaranteed analysis:  
Ammonia..... 5 per cent.  
Bone Phos..... 55 per cent.  
Write for sample and prices.  
**THE WALKER FERTILIZER CO.**  
Clifton Springs, N. Y.

**NOTICE.**

A MIS-STATEMENT in a circular recently addressed "To the Trade" over the signature of Mr. Charles P. Braslan, induces us to state that neither Mr. Braslan nor the so-called Braslan Seed Growers Co. has any interest in our Chicago mail, except in such letters as pertain to 1898 crops.

TO AVOID DELAY or error please address inquiries and orders requiring prompt attention from Chicago to Mr. A. J. M. Joiner, our manager in Chicago, at No. 12 North Clark Street. All other letters concerning our past or present business in Chicago, and all remittances, should be mailed to our Boston office.

**JOSEPH BRECK & SONS,**  
(CORPORATION)  
Per Charles H. Breck, Treas.  
Boston, June 11 1898.

**X PANSY X SEED**

The finest of all the Giant flowering varieties to be had. No better grown, carefully selected, very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. For trade pkt of 200 seeds \$1.00; half pkt, 50c. A pkt. New Forget Me Not "Jewel" with every order.

**JOHN F. RUPP,** Shiremanstown, Pa.  
We like to have you tell our advertisers that you read our paper.



# NOW READY!

FULLY  
REVISED TO  
DATE

The \_\_\_\_\_  
American Florist  
Company's

## DIRECTORY

WITH \_\_\_\_\_  
UPWARDS  
OF \_\_\_\_\_

**3,000**  
**NEW**  
**NAMES**

OF

**Florists, Nurserymen and Seedsmen**

OF THE

UNITED STATES AND CANADA AR-  
RANGED BOTH BY STATES AND  
POST OFFICES AND ALL NAMES

**ALPHABETICALLY**

PRICE TWO DOLLARS.  
IN FLEXIBLE LEATHER BINDING, THREE DOLLARS.

**American Florist Company,**

324 DEARBORN STREET,  
CHICAGO, ILL., U. S. A.



Port Chester, N. Y.

WESTCHESTER COUNTY GARDENERS' ASSOCIATION MAKES A SUCCESS OF ITS FIRST EXHIBITION.—NOTES OF THE SHOW.

Fehr's opera house was the scene of an excellent exhibition of roses, herbaceous and other plants on June 17 and 18. The show was given by the Westchester County Gardeners' Association and was the first exhibition of this character ever held in this district. The largest prize winners were Hicks Arnold, Andrew Grierson, gardener, and Hobart Park, W. Harvey, gardener. Both gentlemen had remarkably handsome as well as numerous exhibits. James M. Constable, Wm. Anderson, gardener; and Mrs. Tashel, Robert Jenkins, gardener, also captured several prizes. Clio was the best flower in the hall.

There were splendid exhibits of hardy perennials from Hicks Arnold, Hobart Park, J. M. Constable, Robert Mallory and the Osborne estate, most noticeable among them being Delphinium hybridum, Coreopsis Harvest Moon, double pyrethrus, campanulas, Heuchera sanguinea; Centranthus ruber and sweet william in fine sorts.

In foliage plants Jas. W. Quintard, G. X. Amrhy, gardener, took most of the prizes. The Osborne estate sent in a lot of well flowered geraniums in well grown specimens and a small collection of fruits and vegetables attracted much attention.

In the non-competitive groups T. R. Pierson & Co., staged a fine display of cut roses and decorative plants and W. A. Manda, of South Orange, showed his new hybrid evergreen roses, crosses between R. Wichuraiana and Perle, Hoste and Meteor, which received a first-class certificate of merit.

BATAVIA, N. Y.—S. H. Russel has sued Nelson Bogue for \$275 for wire fencing. Mr. Bogue claims that Russell owes him \$414 for nursery stock.

**Asparagus Sprengeri**

50,000 Plants in 2 1/2-inch pots, \$5.00 per 100, express 24 for \$1.50 by mail. Specimens for 8-in. pots, \$6.00 per 12.

A. BLANC & CO., Philadelphia

**COCOS WEDDELIANA.**

Each 1 plant 4-in. pot 15-18 inches high, 40c  
1 plant 5-in. pot 24 inches high, 75c

JOSEPH HEACOCK, WYNCOTE, Philadelphia, Pa.

**BULBS** For FLORISTS.. For SEEDSMEN.

VAN ZANTEN BROTHERS, HILLEGOM, HOLLAND.

Azaleas THE FINEST STOCK IN THE WORLD

Palms SANDER, BRUGES, BELGIUM.

Bay Trees Araucarias A. DIMMOCK, 60 Vesey St., NEW YORK.



NEW AGERATUM

Princess Pauline!

A MOST distinct and novel variety of dwarf compact habit, rarely exceeding five inches in height, its peculiarity being that both colors, blue and white, are combined in the same flower; the body of the flower being white, while the stamens are of a light sky blue, giving the flower a pretty, variegated appearance; one of the most distinct new bedding plants that has come under our observation this season

\$1.25 per doz.; \$10 per 100.

For a full line of SEASONABLE DECORATIVE and BEDDING PLANTS see our current Wholesale Catalogue.

If you want the very finest strains of CINCERARIAS, CYCLAMEN, PANSY, PRIMULA, Etc. get our stock. New crops ready end of June.

HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.

When writing mention the American Florist.

JUST ARRIVED

A LARGE SHIPMENT OF

Sweet Bay Trees

(Laurus Nobilis)

In Standard and Pyramidal Form. Ask for price list.

L. C. BOBBINK

Branch of the Horticultural Co.,



Rutherford, N. J.

**PALMS and FERNS**  
The Largest Stock of PLANTS IN THE WEST  
GEO. Wittbold 1708 N. HALSTED ST. CHICAGO

Now Ready

THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price \$2.00; in flexible leather binding, \$3.10.

American Florist Company, 324 Dearborn St., Chicago, Ill., U. S. A.

**A New Rose.**

A new red rose raised by Messrs. Alexander Dickson & Sons, Ireland, and to be sent out jointly by Ernst Asmus and Robert Scott & Son (for the firm which raised it), has only been spoken about in an undertone, occasionally amounting to not much more than a whisper; but a few days ago Alexander Scott (of Robert Scott & Son), E. G. Hill and Robert Craig were speaking about it quite freely, as though everybody knew all about it, or if they did not, it was about time they did.

Without hesitation it was stated to far outdo Meteor in the production of high quality blooms. The color is also superior, retaining that velvety crimson shade—so much admired in a rose by everybody—longer than does the variety which it is expected it is destined to supersede. It was also stated that it is not so full of petals as Meteor, which may make it less valuable as a summer rose; but that fact should not be against it for winter blooming, provided, of course, there are enough petals in it to give it the appearance of being double, and at the same time to retain its bud shape long enough to satisfy retail buyers.

Alexander Scott has planted, or is about to plant, 500 at his new place at Sharon Hill, Pa., which is only fourteen minutes' ride from Broad street station, Philadelphia, and four minutes' walk from the station at Sharon Hill to the greenhouses; so that we may confidently expect that many pilgrimages will be taken out there during the coming season by the growers hereabouts, who will want to see how the newcomer is behaving itself. Mr. Asmus has a larger number than Mr. Scott, but how many I have forgotten. This new rose has been given the name of Liberty. E. L.

**Pittsburg.**

The cut flower trade in this section of the country has fallen off greatly in the past two weeks, and if it were not for funeral work and school commencements the florists could all take a vacation. The stock of flowers is very abundant. The quality is good and the few buyers are getting great value for their money.

The plant growers are about through with the rush in their line and all are well satisfied with the season's business, which has been the best they have had for several years.

The interest in the S. A. F. convention at Omaha is increasing, and from present appearances Pittsburg and vicinity will be well represented.

E. C. Keimman has left for a short sojourn at Mt. Clemons, Mich. His many friends hope he may succeed in getting rid of the rheumatism, which has been troubling him for some time. REGIA.

**ROSES! ROSES!**

Brides, Perle, Woolton, Maids, Kaiserin and M. test. 2500, \$3.00 per 100, \$25.00 per 1000.  
Brides, Woolton and Meteor, from 3-in. \$5.00 per 100, \$45.00 per 1000.  
500, 1000 and 2000 roses. Cash with order.

**ROBERT F. TESSON,**

West Forest Park, - St. Louis, Mo.

**ROSES SURPLUS STOCK**

BRIDES from 2 1/2-inch pots \$3.50  
BRIDESMAIDS " " " " 2.50

**W. H. WORKMAN**

Cash with order OSWEGO, N. Y.

**YOUNG ROSES PLANTS**

	From 2 1/2-inch Pots.	Per 100	Per 1000
AMERICAN BEAUTIES .....		\$4.00	\$35.00
BRIDES .....		2.50	20.00
METEOR.....		2.50	20.00
PERLE.....		2.50	20.00

TERMS CASH WITH ORDER.

**J. A. BUDLONG,** 37-39 Randolph Street, CHICAGO, ILL.

**ROSE PLANTS AS GOOD AS CAN BE GROWN**

We have the following Rose Plants, the same stock as we have planted in our own houses, still on hand and for sale. We guarantee them to be first-class in every respect. . . . .

7000 Am. Beauties.....	2 1/2-in. pots.....	\$5.00
600 Kaiserin .....	3 " .....	5.00
600 " .....	2 1/2 " .....	3.00
4000 Bridesmaids.....	2 1/2 " .....	2.50

FIRST COME—FIRST SERVED.

**BASSETT & WASHBURN, Hinsdale, Ill.**

**Forcing  
...Roses.**

Choice, clean, healthy stock, such as we are now planting for our own use.

500 METEOR,	3-inch pots, \$5.00 per 100.
200 BRIDESMAID,	
500 BRIDES,	
300 SUNSET,	
300 PERLE,	
200 TESTOUT, 3-inch pots,	Per 100 \$6.00
1000 PERLE,	2 1/2-inch pots, \$3.00
1000 BRIDE,	

**L. L. MAY & CO.,**  
ST PAUL, MINN.

**ROSES..**

	2-in. per 100	3-in. per 100
Am. Beauties ..		\$5.00
Perle .....	\$2.75	4.50
Bridesmaid ...	2.75	4.50

MAPLEWOOD CUT FLOWER and PLANT CO.  
PLEASANT HILL, MO.

**Memorial Rose**

(Rosa Wichuraiana)

Strong field-grown plants,  
\$50, \$75 and \$100 per 1000

**SAM'L C. MOON,**  
MORRISVILLE, Bucks Co., PA.

**YOUNG ROSES**

OF the 20,000 Young Roses advertised last week we have only 8625 left. They are BRIDES, MAIDS and METEORS, from 2 1/2-inch pots, in fine order. You can have them for \$3 per 100; \$25 per 1000. Will take 1,200 Perles in exchange. Also for sale No. 16 second-hand Hitching Boiler.....

THE FLORAL EXCHANGE,  
614 Chestnut St., - PHILADELPHIA.

**FINE ROSE STOCK**

FOR PLANTING, Out of 3-inch pots.

METEORS, VICTORIA KAISERIN, MAIDS, BRIDES, BELLE SIEBRIGHT, PERLES A D BEAUTIES.

Write for prices. Send 50c. or \$1.00 for sample lot of what you want to

**GEO. A. KUHLE, PEKIN, ILL.**

**Chrysanthemums!**

New and standard varieties. Extra fine plants from 2-inch pots. Send for price list. Discount on large orders. . . . .  
...ADDRESS...

**H. WEBER & SONS, Oakland, Md.**

**AMERICAN BEAUTY**

Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100, \$70.00 per 1000.

**EDWIN LONSDALE,**  
Wyndmoor, Chestnut Hill,  
Cash with order PHILADELPHIA, PA.  
Money Order Office, Station 11 Philadelphia

You can do more than Pay Your Rent by Advertising your Surplus Stock in The American Florist.

# Grafted Roses

but strong vigorous stock, American Beauty, 3-inch @ \$10.00 per 100; \$80.00 per 1000. **Bride, Bridesmaid, President Carnot, Kaiserin, Meteor, La France, Perle, Mrs. P. Morgan, Wootton:** These are extra large plants in perfect condition from 3-inch pots @ \$8.00 per 100. If you want a large lot, write us for special price and samples. ❀ ❀ ❀ ❀

**American Beauty, Carnot, and Testout** from 4-inch pots, in extra fine shape @ \$15.00 per 100.

**Bridesmaid**, extra fine, 3-inch pots @ \$15 per 100; \$125.00 per 1000.

Also the following varieties, not grafted,

## ASPARAGUS SPRENGERII

From 2-inch pots, \$5.00 per 100; \$45.00 per 1000. This is extra fine stock. Strong 3-inch plants @ 10.00 per 100; \$85.00 per 1000. Write for special prices on large quantities.

## Asparagus Plumosa

Strong 2-inch plants @ \$6 per 100; \$50 per 1000. Strong 4-inch plants @ \$15 per 100; \$125 per 1000.

**Robt. Craig & Son,** Market and 49th Streets, **Philadelphia.**

# Forcing Roses

**FIRST-CLASS, CLEAN, HEALTHY STOCK.** ❀ ❀

	2½ in. per 100	3½ in. per 100
American Beauty	\$6.00	\$12.00
Souv. de Wootton	5.00	10.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria	4.00	9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00

SEND FOR SAMPLES.

Asparagus Sprengerii, 2 in. pots, strong... per 100, \$5.00  
 Asparagus Plumosa, 2½-3 in. pots, fine stock... 7.00  
 Boston Fern, 2½-3 in. pots... 4.00  
 Nephrolepis Excelsa, 4 in. pots... 15.00  
 Ferns in assortment, 2½-3 in. pots... 4.00  
 Araucaria Excelsa, 6 in. pots, 15-18 in. high @ \$1.50 each  
 Cocos Weddelliana, 3 in. pots @ \$2.50 per doz.  
 Kentias, Arecas, Lantanas, etc., large quantities in all sizes. Write for Special Prices on sizes you want.

## CANNAS

A limited quantity of each, from 2½ and 3½ in. pots, to close out at \$5.00 per 100. A'phone Bouvier, Austria, Italia, Discolor, Exp. Crampel, J. D. Cabot, J. W. Elliott, Mrs. J. M. Samuels, Midway, Madam Crozy, Paul Marquant, P. J. Berckmans, Sophie Buckner, Stella Kanst, Star of '91, F. R. Pierson, Madagascar, Mrs. F. L. Ames, Mme. A. Bouvier.

## VAUGHAN'S SEED STORE

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St. Mantion American Florist.

# Forcing Roses

	Per 100	3½ in.
BRIDE	2.50	\$1.00
BRIDE-MAID	2.50	4.00
METEOR	2.50	4.00

White, Pink and Yellow Ramblers, same Moonvines \$20.00; Alternantheras \$15.00 per 1000.

## CHRYSANTHEMUMS

Strong, from 2½-inch pots, \$2.50 per 100.  
**EIDERDOWN** W. B. DINSMORE  
**MUTUAL FRIEND** MARION HENDERSON  
**WHITE SWAN** COL. SMITH  
**GOLDEN BEDDER** GLORY OF PACIFIC  
**MRS. HIGINBOTHAM** ENFANT DES MONDES  
 MRS. ARISTEE.

## THE NATIONAL PLANT CO.,

DAYTON, OHIO.

SMILAX, from 2-inch pots \$1.50 per 100; \$15.00 per 1000.  
 HYDRANGEA, Oakleaf, from 3-inch pots \$5.00 per 100.  
 GERANIUMS, Lion 2 in. pots \$2.25 per 100; \$20 per 1000.  
 " " 3 in. pots \$4.00 per 100; \$35 per 1000.  
 " " 4 in. pots \$6.00 per 100; \$50 per 1000.  
 Cash with the order. Send for samples.  
**FRED. BOERNER, Cape May City, N. J.**

# Rose Plants

OUT OF 2 1-2 INCH POTS. ❀

	Per 100	Per 1000
AMERICAN BEAUTIES	\$5.00	\$45.00
METEORS	3.00	25.00
BRIDES	3.00	25.00
MAIDS	3.00	25.00
PERLES	3.00	25.00

## WIETOR BROS. ROGERS PARK FLORAL CO.

Wholesale Growers of...

CUT FLOWERS  
ROSE PLANTS...

51 Wabash Ave.

CHICAGO

# ROSES. ROSES. ROSES.

American Beauties, Bride, Bridesmaid, Bon Silene, Caroline Testout, Kaiserin Augusta Victoria, La France, Meteor, Morgan, Perle, Souvenir de Wootton, etc., etc.

Also Clothilde Soupert, Mossella and Clara Watson, suitable for immediate planting for summer blooming in extra fine stock from 3 and 4-inch pots.

**JOHN N. MAY, = Summit, New Jersey.**

# CLOSING OUT PRICES! CHRYSANTHEMUM ❀ ❀

The finest of the large early whites. Extra strong plants, 2½-inch pots, \$1.00 for 12; \$6.00 for 100.

**ROSES** Ready to shift. Not old, hard wooded stuff, but young healthy plants. Brides, Bridesmaids, Perle, Sunset and Niphotos, 2½-inch pots at \$2.50 per 100.  
**McDONALD & STEELE, Crawfordsville, Ind.**

# 40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagation.

**WOOTTON** LA FRANCE AMERICAN BEAUTY PRESIDENT CARNOT  
 3-inch pots, \$8.00 per 100. 4-inch pots, \$12.00 per 100.  
**METEOR** KAISERIN MINESET BON SILENE MERMET  
**PERLE** GONTER MME. HOSSE NIPHOTOS BRIDE  
**BRIDESMAID** HELLE SIEBRECHT. 3-inch pots, \$5.00 per 100. 4-inch pots, \$10.00 per 1000.  
**J. L. DILLON, Bloomsburg, Pa.**





Altoona, Pa.

According to reports the sale of spring plants may be likened to that of the proverbial hot cake. Everything in that line sold readily and, on the whole, at fairly good prices. Nor was the Memorial Day trade in any way disappointing, school children as well as their parents, largely patronizing the florist's establishments.

Myers Bros' new range of houses at Eldorado, three miles out of Altoona on the Holydaysburg branch of the Pennsylvania railroad, presents a sight well worthy of seeing. The beautiful grounds surrounding them, and I may remark in passing, that the landscape gardeners' skill is noticeable here in no small degree, the stretch of the Allegheny mountains to the west and east as far as the eye can reach, make this an ideal place. Nine houses, comprising about 25,000 feet of glass, built in the most approved style and equipped with all the modern appliances, constitute their range. A feature worthy of special notice is their hot water heating apparatus, operated under high pressure. By an ingenious device, the heat is evenly or otherwise distributed through the houses, there being a sufficient quantity provided to heat the dwelling house as well. A general stock of cut flowers, bedding and decorative plants and bulbous stock is being grown quite successfully. Allen Myers takes charge of the Eldorado establishment, while his brother attends to the Altoona branch. HOMO.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**

UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

**THE A. T. STEARNS LUMBER CO.,**  
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STOPS CATERPILLARS

The only known practical device that protects trees from the ravages of caterpillars and all other crawling insects. A few cents saves a tree a few dollars and it is up. Sell readily at the per yard.

Send for price list, testimonials and sample.

**Fairmount Tree Protector Co.**  
311 S. 15th St., Philadelphia.

THE BEST FOR ALL Florists

**ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE**

FOR SALE BY SEED STORES

FOR FULL PARTICULARS WRITE TO

**LOUISVILLE SPIRIT CURED TOBACCO CO**  
LOUISVILLE KY

**The Harrisii Disease** Can be prevented by immersing the bulbs for ten hours in a half solution of 99 per cent. ❀ ❀ ❀

**KRAFT'S PLANT TONIC**

This has been conclusively proven by experiments at Lincoln Park, Chicago. ❀ The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25-cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular. ❀ ❀ ❀ ❀ ❀ ❀ ❀

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**THE MALTESE CROSS BRAND**  
THE VERY BEST OF GARDEN & LAWN

**H O S E** TRADE MARK

If your dealer does not have it send direct to the manufacturers

35 Warren Street, NEW YORK. **The Gutta Percha & Rubber Mfg. Co.** 96 Lake Street, CHICAGO.

**THE MODEL EXTENSION CARNATION SUPPORT**

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MR. THERON PARKER, Brooklyn, N. Y.: Dear Sir:— I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention. Very truly yours,  
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.  
MR. THERON PARKER, Dear Sir:— Your wire stake is certainly a gem. Without hesitating we endorse it as an up-to-date carnation support. Yours truly,  
DAILEDORFZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.  
MR. THERON PARKER, Brooklyn, N. Y.: Dear Sir:— It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am Yours truly, E. ASMUS.

Write for price list and discount on early orders.

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Universal Insecticide

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DOES NOT INJURE THE MOST SENSITIVE PLANTS— ENDORSED BY PROMINENT FLORISTS— USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT— 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN— CIRCULAR FREE— SKABCURA DIP CO. CHICAGO.

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QUICKLY DOES IT.

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**PURE DRIED BLOOD.**  
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ALL KINDS.

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OUR SPECIALTY.

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ALSO MANUFACTURERS OF Pure Linseed Oil Putty, Paints, Brushes Etc.

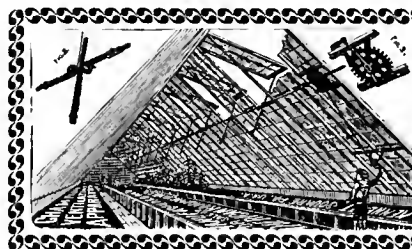
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It's easy to use because the principle is right. A boy can operate it. It's easy to put up because of its extreme simplicity. It's easy to buy because the price is reasonable.....

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Catalogue is free. A postal with your name and address secures it. Address

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**GREENHOUSE MATERIAL**

Cal. Red Cedar and Louisiana Cypress.

BEST GRADES. PERFECT WORKMANSHIP.

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OUR POTS ARE OF THE BEST QUALITY.

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WRITE FOR ILLUSTRATED CATALOGUE  
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**NEW & SECOND-HAND MATERIAL,** purchased from Sheriff, Receiver, and Assignee, sales at less than one-half prices. Pipe and Fittings, Hose, Florists' Wire, Hot Water Heaters, Greenhouse Bolders and Engines, Rope, Light Wrought Iron Pipe, Glass Sash, and thousands of other articles, for sale by

**CHICAGO HOUSE WRECKING CO.**  
Largest Mail Order Depot for New and Second-Hand Material in the World.

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MONTANA FLORISTS REPORT THE BEST SPRING TRADE ON RECORD.—JOTTINGS AMONG THE GROWERS.

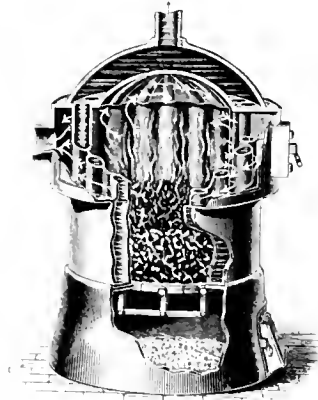
The year's business has been considerably the best Montana florists have ever experienced. Both supply and demand have been excellent and prices have been fair. Easter was a very busy season but little more so than Memorial Day.

The State Nursery Company's business has been good in everything except bedding plants, for which the call was not up to the standard of last year. However, their Butte branch is prospering to an unprecedented degree, and the company is doing more spring building than usual. Two new rose houses, each 16x130, have just been completed and work is progressing upon the third one of the range. A new cold house 10x50 is nearly finished and a 75 foot addition to the palm house is soon to be undertaken.

Mrs. L. J. Wells is doing a flourishing business and feels that the prospects for continued trade warrant the renovating and remodeling of a number of her houses.

Charles Horn reports cut flower trade as very good but states that he is moving his bedding plants slower than is usual at this time of year. Mr. Horn sustained a considerable loss this spring through the caving in of his carnation house.

Mrs. Mattie Miller is showing extra fine geraniums and marguerites. A. J.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW



CAPACITIES FROM 400 to 2500 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

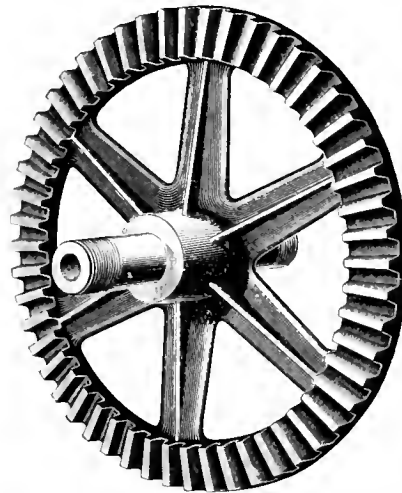
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NEW YORK CITY BRANCH: 48 Centre St.

74 Franklin St., Cor. Arch. BOSTON, MASS.



Standard Ventilating Machine... HAS POSITIVELY NO EQUAL FOR

STRENGTH, DURABILITY

...AND NEATNESS\*

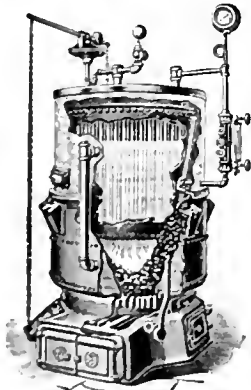
Guaranteed for 10 years. Has a solid wheel and shaft cast in one (malleable iron). No slipping on Line Shaft as the case with all others. Catalogue free.....

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When writing mention American Florist.

—THE—  
**GORTON SIDE FEED Boiler**

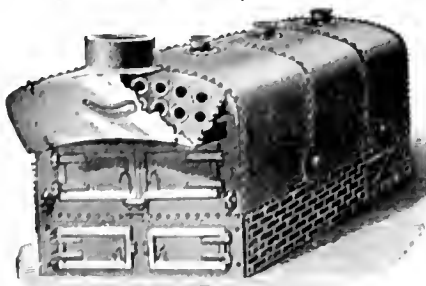


is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

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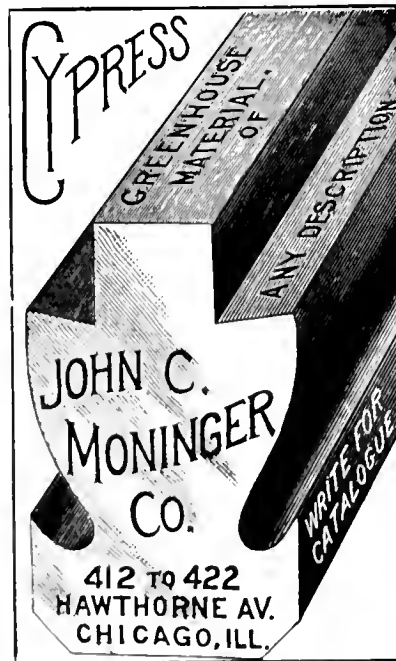
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IMPROVED  
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Boilers made of the best of material, shell, brook sheets and heads of steel, water space all around front, sides and back. Write for information.

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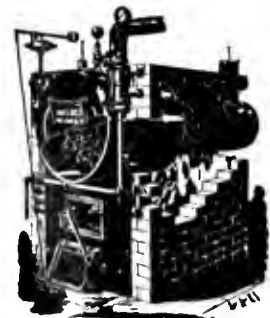
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For Heating Greenhouses, Conservatories and Dwellings.

Our boilers consume all gases from the fuel, therefore making it the most desirable boiler for greenhouse heating on the market.....



Send to day for Catalogue and Price List.

**Vance Boiler Works,**

399 LAKE AVE., GENEVA, N. Y.

St. John, N. B.

TRADE CONDITIONS IN THE NORTHEAST.—  
WM. SHAND STARTS IN BUSINESS WITH A  
MODEL ESTABLISHMENT.

Business here is now in full swing, the weather being mild. Sales of bedding stock have so far been in excess of last year, the demand for annals, especially, being much ahead of the average. Prices, however, are lower than those of former seasons. Cut flower work has been fair, but not better than last spring as a whole, roses and carnations being the principal stock offered.

Wm. Shand, recently gardener to Mrs. W. H. Jones, has just started business on his own account. He has bought three and one-half acres of land with a cottage three miles from the city and is now erecting his greenhouses, one of which, three-quarter span 20x100 to be devoted to roses, is well under way. Another even span 17x70 will be ready by the time to plant stock in the fall, the establishment will be heated by hot water from one of Hitching's boilers. Roses and carnations will be his principal product.

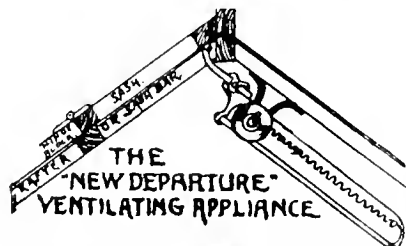
The stock at the greenhouse in the Public Garden is in first-class condition and will no doubt make a grand display later on. At the present time Superintendent Knott is getting the beds filled as fast as possible. BRUNSWICK.



**LOUISIANA**  
**Cypress**  
**Green House**  
**Material.**

**RED CEDAR**

Write for Estimates.



You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to

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# Cypress Greenhouse Material.

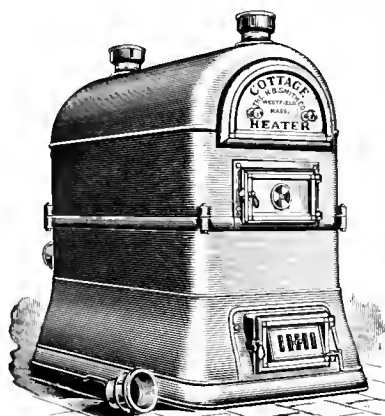
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Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.

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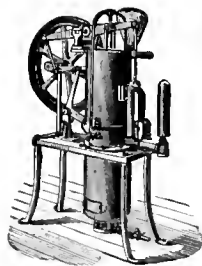
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For GREENHOUSES.

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ESTABLISHED 50 YEARS.  
**HORTICULTURAL ARCHITECTS AND BUILDERS**

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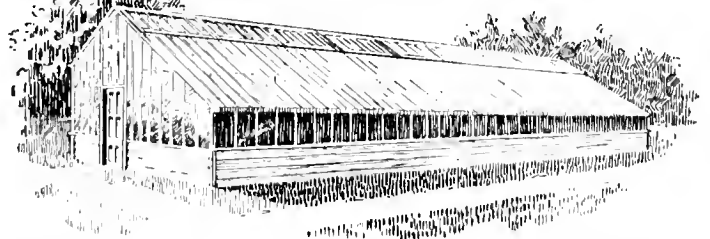


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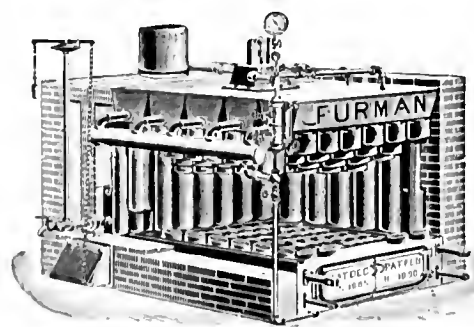
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# THE AMERICAN FLORIST



*America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."*

Vol. XIII. CHICAGO AND NEW YORK, JULY 2, 1898. No. 526.

## THE AMERICAN FLORIST

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OFFICERS—WM. F. GUDE, Washington, D. C., president; A. DONAHUE, Omaha, Neb., vice-president; W. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The fourteenth annual meeting will be held at Omaha, Neb., August 16-19, 1898.

THE AMERICAN CARNATION SOCIETY.  
 Annual Convention at Philadelphia, February, 1899.  
 ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.  
 Annual meeting at Omaha, Neb., August, 1898.  
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### Park Woodlands and Plantations. *Paper read by J. W. Pettigrew before the Park and Outdoor Art Association, Minneapolis, June 22, 1898.*

The subject of the treatment of natural woodlands in parks is of vast importance and commands the earnest thought of landscape gardeners. Such areas are generally made up in great part, of thick growths of trees, which have injured each other more or less, by close contact, natural perhaps, in the sense of having sprung from the soil without the aid of man, but having, nevertheless, been subject to such unnatural conditions as to upset nature's balance.

The effort on the part of the landscape gardener or forester to improve the natural or growing condition of woodlands in public parks, is generally met with opposition from probably well-meaning, but badly informed critics, who cry that the work is an interference with nature, and who call in the aid of ready tongues, and readier pens to stop the "outrage."

The forester brings into service the practical experience and study of years in his efforts to assist nature in her work, yet all for naught. The clamor of a few enlisted in a mistaken crusade discourages him, or influences those in authority to the extent of causing a stoppage of the work, and the result is seen too painfully all over the country, in their malformed and distorted condition, from over-crowding of park trees.

General rules can scarcely be framed for the treatment of natural woodland—much depends on the use to be made of it, whether for woodland effects or woodland use. The first operation in a thick piece of woodland desired to be retained for natural effects, should be that of thinning; trees of individual merit or beauty should have interfering trees removed, to allow of their own development. In places, areas of greater or less size may be entirely filled with trees, which, by reason of overcrowding, are so far injured that they can never recover their lost beauty; in such case, a free cutting should be made to allow light to penetrate to permit of the growth of saplings or newly planted material below, and further cuttings made, from year to year, as the young growth demands. Care should be taken that all saplings that may not be needed are cut out, only retaining those necessary to replace sickly or injured trees. Judicious thinning of all trees should be made where interfering with the growth of better ones, noting, at the same time, and retaining picturesque groupings or pleasing combinations of trees, preserving, in the general mass, a natural appearance, and encouraging

as much individuality as possible, without impairment of natural woodland effects. This thinning will permit of the passage of light to the undergrowth which will respond quickly to its influence and materially enhance the beauty and naturalness of the woodland. A woodland so dense as to prohibit the growth of vegetation on the ground, is monotonous and dreary.

The improvement to the wood by thinning is noticeable in the following season's growth, the branches, relieved of the necessity of having to struggle upwards to an opening in search of light, spread out, and it becomes apparent very quickly, that the work of the axe will have to be resumed the following winter, in fact, whether in woodland or plantation, the work of the axe is never completed; it is vandalism to lay it away.

The best time to make selections for permanent trees or for cutting is in the summer. At this season, the condition of the tree can be more easily ascertained; its relative position and needs are more apparent.

Natural woodlands, when included in lands taken for park purposes must of necessity either dominate, or be subservient to a general scheme of adaptation, in the latter case modifications of their out-lines may be necessary. Let no mistaken sentiment prevent the execution of this work. A park is not made for a day; the work of the present is subject to the judgment of the future; the mistakes of to-day bear disappointment for posterity. Should it, then, become necessary to cut away any part of the woodland, in the execution of a properly devised plan for the unification of the different parts of the ground into a harmonious whole, hesitate not to apply the steel.

Very often natural woodlands are subject to severe and constant use of the public, when it is impossible to retain underbrush and ground cover; in such cases the destruction of underbrush exposes the ground to the action of the sun. The roots running near the surface which have been protected from heat and dryness under the natural forest covering are killed off and the trees soon die. This result can not be avoided unless some other covering can be substituted. One of four or five inches of loam seeded in grass will serve the purpose, and be besides of great benefit to the trees.

The proper treatment of park woodlands includes the careful cutting from the trees of all dead or diseased limbs. A large proportion of trees come to an untimely end, because of the decay introduced into the boles through the stumps of dead limbs. Each cut should be made close and even with the bole, and well

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painted over, renewing the coat whenever necessary until the wound is healed over.

While natural woodlands within park areas are arbitrarily placed, and generally control any scheme for harmonizing them with other features, plantations are entirely governed in their location and character by the landscape gardener.

The preparation of the ground for planting is of the first importance to the trees. On it depends largely whether the plantation shall be a mass of healthy, vigorous foliage, or a collection of stunted trees, dragging out a starved existence. For the production of a healthy growth of deciduous trees, an essential necessity is a sufficiency of good soil. A park commissioner once said, "Besides the diamond, since becoming a park commissioner, I have discovered another valuable—loam." Without it, noble proportions in the trees can not be expected. Therefore, to achieve good results, soil, and plenty of it, must be provided. This is expensive work; an old saying contains sound advice: "If you wish to spend twenty dollars to plant a tree, spend nineteen and a half of the amount in the preparation of the ground."

No work of park construction should take precedence over that of tree planting, other than the work necessary to make the ground intended for plantations available; bridges, buildings, roads and walks are of secondary importance in comparison.

Assuming that the soil is good, preparation for planting should be commenced in the preceding summer by plowing and deeply subsoiling, plowing the ground two or three times, reducing it to a good condition of mellowness. Spring planting is preferable in our northern latitudes. Fall planted trees, unless put in early enough to have made roots to sustain them, are apt to dry out by evaporation during the long freezing months. A good method is to make selections and purchases in the fall, which can be heeled in over winter, and protected from drying winds; thus planting can be commenced much earlier, unhampered by the delays of spring shipments from nurseries. In planting, plant thickly—ten to twelve feet apart is not too close—the ground then is more quickly shaded; the trees also shelter each other. Thin out by transplanting or even by cutting when the branches interfere. Under no consideration, permit injury to be done by overcrowding. This method has many advantages; it provides shade for the ground and for the trunks of the trees; the trees, thickly placed, protect each other from scorching winds; it permits of easy and cheap cultivation of the ground, and is a convenient nursery from which finer trees can be gotten each season than can be had in commercial nurseries. The plan also gives a greater variety from which to select the permanent trees. It gives, too, the effect of mass more quickly.

The contrary opinion is held by some who advocate the planting of the trees in their intended permanent positions, and no others, the principal reason for which seems to be that from a fear of publicity, the thinnings are not made, or that from negligence or ignorance the trees are allowed to overcrowd and spoil each other. The best objection may be met by transplanting instead of cutting out. For the second it may be said that ignorance or negligence can not be guarded against by any method of planting.

It is best to plant the intended permanent trees at a distance of from thirty five to fifty feet according to their

expected development. A second arrangement may be made, nearly alternating, of some other kind of tree, and even a third combination may be made, again alternating. The advantage of this plan is that any one of the three arrangements may be adopted as may be deemed best, at thinning time, for the permanent trees.

The effect of large masses of trees of one species is much more dignified and impressive than a conglomeration of trees of different kinds and habits of growth. The mass or groups of varying size may be allowed to merge into each other in irregular, ragged outlines. It is not considered desirable to plant shrubs throughout new plantations, as they interfere with the free use of the cultivator, which is a valuable adjunct to the diligent planter desiring vigorous, rapid growth.

Cultivation should be maintained for a period of three years or so, when the shrubbery or ground cover may be introduced. Shrubby should, however, be planted on the borders of the plantation, when made of such wood bordering plants as shadbush, redbud, viburnums and cornels, etc.

For planting in public parks our native trees and shrubs can not be surpassed for appropriateness and beauty, and for this purpose their use alone is advocated; nothing can be more inharmonious than

the introduction into park woodlands and plantations of exotic trees and shrubs or of variegated sports and monstrosities; rather let our parks be typical of our native woods and glades, helped along nature's lines by the artistic hand.

#### Fuchsia Photograph Competition.

We are pleased to be able to present herewith one of the pictures in our "Fuchsia Photograph Competition," as per announcement on pages 588 and 600 of our issue of January 8. The variety illustrated is named "Charming" and the plant was grown by Mr. Peter Cronetto, of Millbrook, N. Y., from a cutting inserted in January, and subsequently treated as recommended in the number of the AMERICAN FLORIST already quoted. The plant is in a 5-inch pot, as indicated by the rule in front.

#### The Foxglove.

This hardy biennial or perennial, *Digitalis purpurea*, is one of the showiest plants of its class and very easy of cultivation. At Schenley Park some ten thousand of these plants are under William Falconer's care and have for several years been a great attraction when in flower. That the public takes an interest in flowers as seen in displays of this kind



FUCHSIA CHARMING

is evidenced in the demand that has sold thousands of digitalis in the city of Pittsburg and vicinity alone since they were brought to notice in this way.

Schenley Park is a great public educator, and such grounds and buildings, with such superintendents as Mr. Falconer and the late Mr. Bennett, should be established in every large city in the land. It can be done if intelligent efforts are put forth. Let the florists' clubs start the movement; get influential citizens and newspapers interested, and when the idea is well before the people have the proper legislation enacted, with the necessary appropriations, and another floral school would soon be founded that should be a great source of pleasure to the community which surrounds it. Boston's public gardens have done wonders in educating the people, and the many beautiful private estates of large and small dimensions in that city and its environs bear testimony to their worth and the appreciation in which they are held by the people.

ROBERT KIFT.

#### Herbaceous Plant Notes.

In the latter part of June the gorgeous Iris Kämpferi begins to open its first blossoms; the weather is not always very favorable for the development of perfect flowers of the largest size and whenever possible in dry spells the plants should be treated to liberal waterings so as to keep the ground constantly moist until all the flowers are past. In commercial places where only plants are wanted, little or no attention is paid to the production of good-sized flowers, but when we grow them for ornament, or for cut flower purposes, watering should not be neglected, as moisture at the roots will not only increase the size of the petals, but will also improve the lasting quality of the flowers. We had occasion to observe the difference in the size and durability of flowers in two patches of this iris on our place last year. One lot was planted in light, dry soil; the other in a moist situation. Both were exposed to the full sun and the varieties were the same in each patch. On clear, hot days the flowers in the first bed would not last more than four or five hours, while those in the moist patch were as fresh as could be desired and often remained in good condition for three days.

*Inula hirta* is a pretty, very free blooming, yellow, daisy-like flower; blooms in the second half of June and during July; grows fifteen to eighteen inches high and is decidedly useful as a cut flower. *I. glandulosa* is a much larger flower, four to five inches or more across and of a deeper golden color. The ray florets are narrow and long, giving them a fringed appearance. The foliage and stem is covered with whitish down and its height is about two feet. This valuable plant is not often seen in collections, but perhaps only because it is little known and does not increase very rapidly. It blooms with us regularly from June to August and is as hardy as an oak tree and succeeds in any soil or position.

The *gaillardias* have been out since the middle of June. Among the improved varieties we have not only flowers of immense size and semi-double, but also great variations in color; we have pure yellow, yellow with a dark disk, broad rays and quilled rays, red and yellow combined in various ways or shades and some flowers are deep crimson with only a barely visible yellow edge. Flowering freely until frost, their value as orna-



DIGITALIS PURPUREA.

mental plants for beds, borders or shrubberies is apparent and the flowers are also largely used for cutting. For this latter purpose only the best varieties should be procured, as ordinary seedlings will give too large a percentage of small, inferior blooms which do not sell readily.

*Verbena venosa*, that persistent bloomer, has been used quite extensively as a bedding plant in the last few years. Several complaints have reached us that this plant was not hardy, but that must be a mistake for we have always been able to keep it uninjured in the open ground without protection of any description. It is true, however, that the old plants seem to be entirely dead in spring and no life is visible above ground when most other plants are well advanced, but if we leave them undisturbed a little longer, we will soon notice strong growths coming up thickly all over the patch. This vigorous growth springs from the long, wiry underground runners which were formed the season before; at nearly every joint a new plant will be produced and it is necessary to thin considerably, else the plot would be overcrowded in a short time. If these runners are dug up in early spring before they start into growth, we may cut them into small pieces and in this way raise hundreds of strong young plants, which, when potted off singly, are ready to bloom

by the middle of May, while those left to themselves outdoors will seldom begin to flower freely before the end of June. This method of propagation is cheaper and faster than raising young stock from seed.

Campanulas are out in great variety; for constant blooming few are better than the Carpathica section in their various shades and the lovely *C. rotundifolia*; neither of them are tall or rank growers; the stems are sent up only twelve to fifteen inches high and come out in succession, thus furnishing a continuous supply of flowers until fall. A mass of luxuriant pretty foliage covers the ground effectually at all times and the old stalks fall over as they decay and are hidden from view, though it is best to remove them as soon as their flowers have faded. *C. persicifolia* *Backhouseana* is a great improvement on the type; the bells are larger and of more substance and the growth is more robust. *C. persicifolia* *alba coronata* is a very pretty semi-double, white form, which can be recommended for cut flower purposes. The same may be said of *C. Trachelium fl. pl.*, which grows a little taller and has larger and very double bells.

*Cephalaria Tartarica*, with its long-stemmed, straw-colored, scabiosa-like flower-heads, is now in full bloom; it stands the drought remarkably well, though in moist ground the size of the

flowers is improved, yet they are of good size here, four inches and more in diameter; five to six feet tall and with luxuriant ornamental foliage. It is admirably adapted to planting in the lawn, where a clump forms a symmetrical specimen and we need not be afraid of strong winds damaging either the foliage or the tall flower stems.

*Salvia sclarea*, with its immense panicles of pale, lilac-blue flowers, is a rather large plant, three to four feet high. It wants plenty of space, for the leaves are large and broad; the flowers will continue in fine shape until well into August and it is a grand plant for all purposes, excepting the small, narrow border. Any well enriched soil will suit this plant and where an occasional watering can be administered the panicles will increase wonderfully in size.

*Epilobium angustifolium*, to do its best, wants moisture, although we have fair success in our dry borders where its average height is reduced to about three feet, while in moist and partly shaded positions we often see them six feet high. The long, tapering, branchy spikes are produced on every growth; the individual rosy flowers are quite large and of a lovely crimson color. The dwarfier white variety, *E. angustifolium album*, flowers with equal freedom, and both are very desirable for borders, shrubberies or for naturalizing in the wild garden. *E. hirsutum* blooms in large corymbose clusters some weeks later than the others; bright pink and is of equal, if not of superior value for the same purposes. Height generally from three to four feet. J. B. KELLER.

#### Chrysanthemum Notes.

Plants set out two weeks ago should now be growing rapidly, and care must be taken that they are never allowed to dry out too much. Neither should they be given too much water for if kept too wet they will make a soft growth, which quickly wilts and burns on exposure to the sun. Remove all the weeds from the soil as soon as they are large enough to handle, and keep the surface of the soil as even and firm as possible.

Some varieties will throw out lateral shoots at every leaf when they begin to make rapid growth and these must be rubbed out as soon as possible. A number of other sorts, from early struck cuttings, will set a bud at this time, which also should be removed, allowing one of the shoots which spring from its side to remain. In order to keep down the red spider and black aphid, as well as to insure luxuriance of growth, a free use of the syringe is absolutely necessary in bright weather.

Do not neglect to stake and tie the plants as they require it; timely attention to this will save many valuable shoots. We have found it impossible to grow fine chrysanthemums under heavily shaded glass. Our houses run north and south and yet we do not shade at all, maintaining the proper temperature so far as practicable by frequent syringing and strict attention to the ventilation. If adequate ventilation cannot be given with the ventilators at hand, it would be well to remove a pane of glass here and there along the sides.

All plants intended as specimens for exhibition should be given their final potting now, taking care to pot firmly with ample drainage. Do not water heavily until the plants have had a chance to take hold of the new soil, which it does a week or thereabouts, and never pot a plant when it is dry, better water it thoroughly first, and allow it to drain off by

standing a while. Fine coal ashes banked up around the pots where the sun strikes them will keep the roots cool and encourage growth. The shoots should be pinched before they get too long, otherwise it will be difficult to produce shapely plants. C. W. JOHNSON.

#### Palm Leaf Blight.

For several years my attention has been called to a leaf blight upon palms. Recently in passing through a large palm house it was observed that many of the leaves of some sorts of palms, and particularly the fan-leaved species, were badly blighted. Fig. 1 shows a much reduced view of a badly diseased leaf of *Livistona rotundifolia* made from a photograph. This leaf was almost wholly

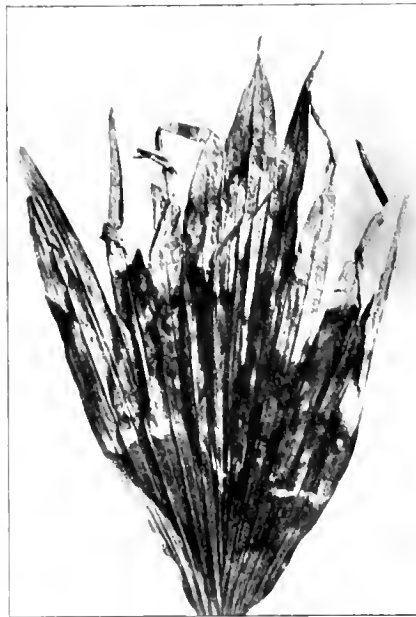


FIG. 1.

blighted and the boundary between the dead portion and the part still alive, although indistinct in the engraving, may be seen near the base of the leaf. Fully three-fourths of the leaf was brown and worthless, and more than that was the place where countless numbers of the germs of the fungus were being propagated.

If the persons interested in this trouble will look closely at the upper portions of

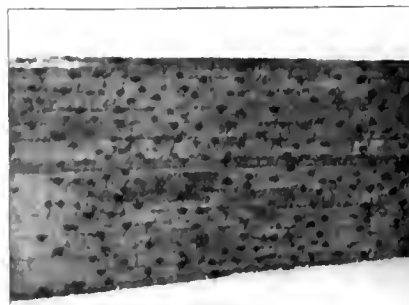


FIG. 2.

the leaf when it is already brown or ash-colored he will find many small specks. These specks are not easily shown in an engraving of a whole leaf, but in the en-

larged piece shown in Fig. 2 they are more distinctly seen. These specks do not come until the fungus, a member of the genus *colletotrichum*, has practically destroyed the leaf at that spot. They are specks produced by the fungus breaking through the skin of the leaf and in the rupture, usually oval in outline, developing a number of stiff black hairs like minute eye lashes, and between them are produced the multitude of spores free upon the surface of the rift.

The writer dwells upon this spore formation for palm growers are sometimes inclined to think that, if there is any fungus, it plays no primary part. It may be true that the *colletotrichum* thrives usually while the palms are small or when the house is under conditions most favorable for it; but it nevertheless needs to be remembered that the blight is positively contagious and may become a serious pest if left unchecked. Plants that are badly diseased should be excluded from a house of healthy palms, and all blighted leaves like the one shown in Fig. 1 should be picked off and burned. It is not profitable in any way to let them remain on and spread the trouble to other leaves of the same plant or to furnish spores to be carried to other plants by the process of watering. The beauty of a palm is in its strictly healthy foliage, and therefore it should be cared for accordingly. BYRON D. HALSTED.

#### Carnations.

There should be a closer relationship between the retailer and the grower in this branch of floriculture.

When the grower looks back over the season just past it presents a few bad features and they should be object lessons to us. Last season the crop of carnations was at no time as large as it has been in some years and yet the prices did not rule high enough on first-class stock to leave the grower a fair margin of profit.

As the percentage of profit derived from 1000 carnation plants decreases the grower who depends on this branch for his livelihood has but one redress and that is to increase the extent of his plantations, which, in turn, helps to pull the market still farther down.

It would, of course, be impossible on account of the very perishable nature of our stock to expect the same relationship between the retailer and the producer as is maintained in manufacturing circles, but there should be some sort of protective method adopted, that would tend to lessen the glut that frequently reach the selling centers.

When a lover of carnations goes into a retail store and sees his favorite flower handled and sold by the methods too frequently employed, his whole nature is bound to revolt. Not always, but quite frequently, carnations are thrown down like bunches of beets or onions, the customer looks them over and decides on taking something else. If they are taken and there are any seconds in the bunch they will be found in the package when the customer gets home and the transaction, as a whole, instead of stimulating regard for the flower, has just the opposite effect. This is not a second or third class store scene, either, but one that can be witnessed in many first-class establishments at almost any time.

The carnation is without a rival as a cut flower if it is properly handled. To get the beauty of a dozen flowers they must have a little help, either by means of their own foliage or that of some other green strong enough to assist in holding



up the weak stems and show the beauty of the blooms. This matter of greens need not be an additional expense of more than from one to three cents per dozen and it will certainly increase the sale of carnations enough to more than make up that amount. There is no question but that if the retailer pushes the carnation by the best means and sends it from his store fresh and in proper shape the sale of the flowers would be doubled in ten years. Possibly under present methods the production will be trebled in that time, but that will not decrease the profit of the retailer if he will aid in increasing consumption. Over production could be avoided if the retailers, who are in constant touch with the market, would advise the grower what to drop from his list and what to grow, and exchange ideas frequently.

The florists' clubs should be a good medium for this interchange of ideas and should be used more as a means for that purpose than any other. The national society should be used as a means of feeling the market of the whole country once a year. Once a month a short time in the club devoted to the selling interests of our products and an evening of discussion on the same subject in the national society would be of material interest to grower and retailer alike. We have papers on this flower and that; on growing in all its branches and nothing on the disposition of our stock, which is quite as important as the production.

Let us get closer together; we will all be the better for it. Omaha is a good place to meet each other in August; Philadelphia will be a good place next February and the club meeting is a good place once a month. If you are not a member, join; make yourself heard, and let us, united, try to make business a little better for '99 than it has been for '98 and keep the ball rolling for the opening of the new century.

ALBERT M. HERR.

#### New York.

"A HOT TIME IN THE OLD TOWN" DEMORALIZES THE MARKETS.—STUMPPS SAIL FOR EUROPE.—LANG-HEINTZ NUPTIALS.—JOYTINGS OF CITY LIFE.

Midsummer conditions already prevail in Greater Gotham and the volume of business goes up or down inversely as the mercury ascends or descends the tube of the thermometer. The earliest signs of hot weather brought depreciation in quality, quantity and value of stock, and the cut flowers which are now coming into this market are very poor, while receipts are each day growing smaller and smaller. There is no fixed price for anything and, while quotations are made upon the usual hot weather scale, in reality everything sells for what it will bring, and no more. To use a trite saying, stock goes at any old price.

George M. Stumpp, 761 Fifth avenue, and his son, G. E. M. Stumpp, sailed on Tuesday on the Trave to spend the summer in Europe. They go to Berlin and will wheel from there to Mr. Stumpp's birthplace in Germany.

Theodore J. Lang and Miss Etta Heintz were married on Tuesday, June 28. It was a very pretty ceremony and was performed in the presence of a large number of relatives and friends. The bride carried a beautiful bouquet of pure white sweet peas, and received many beautiful and valuable presents. For some time Miss Heintz was employed in Mr. Lang's store at the corner of Thirty-eighth street and Sixth avenue. They have a wide acquaintance in the trade

and have received a perfect shower of congratulations.

Mrs. Toomey, of One Hundred and Forty-ninth street and Third avenue, died on Monday, June 27. She was a step-daughter of that eccentric character, Rudes, whose sensational suicide at Astoria a year ago is still frequently spoken of.

Alexander S. Burns has leased his greenhouses at Woodside to Alexander Von Asche for a term of five years.

The Manufacturers Rubber Company has moved from Fulton street to 45 Vesey street.

E. Koffman opened his new Twenty-eighth street store yesterday, Friday, July 1. It is a very pretty place and a large number visited it on opening day. A cooling lunch was served.

J. H. Small & Son are making excellent progress in modernizing their store and by August will have one of the handsomest establishments in the country.

#### Basket of Roses.

The basket in the illustration which appears herewith stands four feet in height and is made of Beauties, Maids and Brides together with a few sprays of mignonette and a bunch of the giant white daisy. The handle is trimmed with orchids, cypripediums and dendrobiums,

together with lily of the valley. The larger roses were placed in a vase of water set in the moss in the body of the basket and afterwards filled with loose sphagnum and wedged at the top with small pieces of sponge, so as to prevent slopping of the water.

#### Philadelphia.

PLANS FOR A DESCENT ON UNSUSPECTING OMAHA.—TRADE CONDITIONS—THE KAISERIN QUESTION.—ANOTHER NAVAL EXPEDITION.—AMONG THE GUNNERS.

The approaching convention is to be the subject for discussion at the July meeting of the Florists' club next Tuesday evening. There is, no doubt, much good to come from the Omaha gathering and it behooves all progressive members of the craft, those who desire to keep strictly up to date, to join the procession that is shortly to wend its way half across the continent. The number going from Philadelphia will no doubt be made known at this meeting. If your mind is made up to attend come and state the benefits you expect to receive, and prove to the man who thinks he can't afford it that he is making a mistake.

Business is about as good as usual at this season of the year. An occasional busy day is the good luck of some of the stores. Graham will be right in it over



BASKET OF ROSES.

the "Fourth" having a \$2000 contract with the city to decorate a number of carriages, drags and four-in-hands that are to take part in the parade in honor of the day. The separate decorated wagons to be furnished by such florists as choose to take part, for which \$50 each was appropriated, was changed and the whole amount put into one fund.

There is quite a difference of opinion as to whether grafted Kaiserins are any better than those on their own roots. Geo. Anderson claims to have a lot of young virgin stock that are equal to, if not better than any grafted plants. Chas. F. Evans, of Rowlandville, is cutting Kaiserins from grafted stock planted since Easter, from which he is getting flowers with stems fifteen to eighteen inches long.

Emptying, filling and planting rose houses is still the principal work among the growers. Sixteen to eighteen loads of soil are required to plant a house 20x100.

Commodore Westcott will command another expedition to Waretown, N. J., some day next week. Spanish mackerel will be most diligently searched for, though if anything else Spanish should make an appearance we are afraid that the Commodore and his party, while brave, would immediately pull for the shore. They will not be without ammunition, however, and will no doubt catch barrels of fish.

George Anderson won the Gun Club medal for the year at the deciding shoot last Tuesday. George has a great eye and although always scratch man he generally manages to hold his place in the front rank in spite of the handicaps.

On June 25 the crack shots of the Highland Gun Club, of Germantown, defeated the Florists' Gun Club by a score of 151 to 128 out of a possible 200. There were eight marksmen on a side. K.

#### Boston.

CONDITION OF JUNE BUSINESS.—END OF SEASON.—EARLY CLOSING.—SUMMER EXHIBITIONS IN HORTICULTURAL HALL.—DECISION IN THE HAYES WILL CASE.—LOCAL NOTES.

Business continues fairly active but is not and has not been equal in volume for June as compared with former seasons. Prices are also decidedly lower all along the line than ever before at this date. Outdoor roses have been unprecedentedly poor, and their inferior quality has prevented their making much impression on the cut flower market, which is badly lacking in good roses of any kind. Of carnations there is a superfluity in all colors,—quality affected by hot weather, but still presentable. Weddings are still using a good many flowers but the end of the rush is now in sight. Lily of the valley has not moved so readily as it should, the quantity called for being limited and the prevailing prices low. School graduations are pretty well cleaned up Saturday, July 2, is the big wind-up day for the public school graduates in Boston, when bouquets and ice cream will be provided for three thousand or more. The city order for this number of bouquets has been divided up among a large number of the local florists as usual. Then the rush for country and seaside will be on and all good florists will close their stores at 5 p. m. regularly, take a vacation themselves, and present their employees with two weeks' pay in advance and tell them to do likewise.

Saturday, July 2, introduces the first of the regular series of weekly flower shows

at Horticultural Hall. From noon until 3 p. m. every Saturday a good exhibition may be looked for, and florists from other places who may come Bostonwards should not fail to visit there. Hardy roses, Japanese and English irises, sweet williams, campanulas, delphiniums, Shirley poppies and herbaceous plants are the specialties for which prizes are offered on July 2. On July 9 hollyhocks and native flowers have their innings.

The supreme court has decided that payment to the Massachusetts Horticultural Society as residuary legatee, under the will of the late Francis B. Hayes, shall be estimated from the time of death of the testator and not from the time of the probate of the will, as has been contended. Interest at 6% has thus been allowed to all other legatees and the amount remaining for the Horticultural Society is reduced to that extent.

A. H. Hews & Co. have just completed a commodious new office at their pottery in North Cambridge.

Mr. and Mrs. Carl Beers have been in Boston a few days, previous to their departure for Europe per steamer Catalonia, June 29.

Recent visitors: S. S. Pennock, Philadelphia, Pa., and H. S. Anderson, Elizabeth, N. J.

#### Chicago.

JUNE LEAVES THE CUT FLOWER MARKET FLAT.—A SYMPOSIUM OF PLANT GROWERS' EXPERIENCES.—DEATH OF MRS. REDFIELD.—JOTTINGS OF PERSONAL MATTERS.

A week ago the cut flower market was completely cleaned out of stock, and any kind of a flower would sell. Everyone was satisfied with the school commencement trade; that it was the best ever known in Chicago is the nearly unanimous verdict of both wholesalers and retailers. At present trade is hovering around the zero mark, there being very little demand for anything in the cut flower line, and if there was a call for flowers there is little stock in the market to supply the demand. About the only flowers the retailer has to offer that he is not ashamed of are sweet peas and longiflorum lilies. These are plentiful and of fine quality. There are a few really good Meteor and Kaiserin roses on the market, and also a few fair American Beauties, but most of the Beauties that come in are off color or wide open on account of the heat. A few growers are sending fair Brides and Bridesmaids, but generally the stock of these roses is very poor. Carnations are getting smaller in quantity and size, and poorer in quality. Fakirs have sold them at 5 cents a dozen this week.

John Lang has for a number of years made a specialty of growing bedding plants for the wholesale trade. He says that the demand for this class of stock has been very good this season, as he had a larger supply than usual and sold out of everything except verbenas. He grew about 20,000 geraniums, of which Bruant and S. A. Nutt were the leading varieties. For single scarlet he grows principally Queen of the West and H. K. Klifton, with Mrs. Hill and Jos. Vick, salmon pink, Emile de Girardin and Pink Perfection for pink. He grows about 4,000 mchias, more than one-half of them Black Prince. Of his 20,000 pansies all were sold.

August Jurgens is a large grower of bedding plants, and retails most of his crop. His spring plant trade amounted to about the same as last year; he sold

more stock, but not at quite so good prices. Mr. Jurgens finds very little demand for any geranium except scarlet, and with him S. A. Nutt and Bruant are most in demand, but he thinks J. J. Harrison a better variety, and will grow it in place of Bruant next season.

August Dressell is another extensive grower of bedding plants who reports trade in this line better than last season. E. Wienhoeber has a very large retail plant trade, most of his stock going to regular customers of several years standing. Mr. Wienhoeber grows only a few varieties of geraniums, all single and nearly all scarlets. The varieties he grows are principally Queen of the West, H. K. Klifton, Excellent and R. Mason. The latter gives the most general satisfaction. Mr. Wienhoeber states that because of cold weather bedding out did not commence this season until about ten days later than usual, but that while the season lasted, which was about a week less than is common, plants sold with a rush and that the total spring business was very large.

E. Hobbs reports the bedding plant trade as satisfactory, fully as good as last season. With Samuel Muir's estate spring plant trade was not so good this season as formerly. Geraniums sold quite as well but alternanthera, verbenas and all seedlings sold very poorly. J. T. Kidwell & Bro. found plant trade not up to last year although they sold out all the geraniums they had grown and had to buy a few hundreds. Andrew McAdam sold about as much stock but prices were not quite up to last year. He sold out of everything except geraniums, of which he had a larger stock than usual.

Mrs. Cora Redfield, widow of the late James Redfield, died Sunday June 26. Mrs. Redfield was the daughter of the late John A. Kennicott, who was for many years horticultural editor of the *Prairie Farmer*, and sister of Amsey Kennicott and Flint Kennicott who are at present in the florist business and well known to the trade. The family have the sympathies of their many friends.

C. W. McKellar returned last Wednesday from Mt. Clemons, Mich., where he had been sojourning for a few weeks.

Blair Winters was run into by a grip car at the corner of Wabash avenue and Randolph street a few days ago and the carriage in which he was riding at the time was badly damaged; fortunately he escaped without injury.

Mr. and Mrs. Emil Buettener and children will leave July 4, for a two months trip to Europe.

Bassett & Washburn and Wietor Brothers are cutting American Beauties from their young stock of this season's planting.

The first outing of the Florists' Club will take place July 10. The train will be taken at the Randolph street station of the Illinois Central R. R., at 12:45, for Henry Hilmer's greenhouses, Blue Island. Ladies specially invited.

Visited Chicago: Edward E. Uslar, and Henry Ruchl, California Nursery Co., Niles, Cal.; Messrs. W. Hizer, Lawson and J. J. Soper, Rockford, Ill.; E. G. Hill, Richmond, Ind.; P. J. Lynch, of Dingee & Conard, West Grove, Pa.; William Hageman and Mrs. Hageman of Philadelphia.

NEWBURGH, N. Y.—David Cook, the well known floriculturist who was for some years gardener for J. Pierpont Morgan, the multi-millionaire banker, has established his son Charles in business at Fishkill.

**THE AMERICAN FLORIST**

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FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.  
Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE man who rents palms and never returns visited Utica and other New York cities during the week. This seems to be his busy season.

JUDGE C. C. COLE, well known to the craft at the earlier conventions, and Mrs. Cole on June 25 celebrated their golden wedding. The event was the occasion of a large gathering of their friends at and near Des Moines, Iowa.

THE Society of American Florists has adopted as its badge for the August convention a silver rose leaf embossed "S. A. F. 1898," which should be provocative of warm greetings at the home of the good friends of the white metal.

**Florists' Early Closing.**

We, the following wholesale florists of Chicago, hereby agree to close our respective places of business at 5:30 p. m. from Tuesday, July 5, until Monday, September 5, 1898, or until duly published notice to the contrary. We furthermore agree that in the event of withdrawal from the obligation hereby entered into, to give written notice to all parties signing this agreement, not later than Thursday previous to the Monday on which said withdrawal goes into effect.

REINBERG BROS.	WIETOR BROS.
E. C. AMLING.	POEHLMANN BROS.
W. E. LYNCH.	J. B. DEAMUD.
S. B. WINTER.	BASSETT & WASHBURN.
KENNICOTT BROS. CO.	E. H. HUNT.
A. G. PRINCE.	KLEHM'S NURSERIES.
J. A. BUDLONG.	A. L. RANDALL.
VAUGHAN, McKELLAR & WINTERSON.	

**Fortunate Unfortunates.**

We have received photographs which show all that was left of the establishment of the Humfeld Floral Company, Kansas City, Mo., after the hail storm of May 14. In a quarter of an hour that afternoon they lost 17,500 square feet of glass out of a total area of 21,073 square feet, but they were insured and received the check of the Florists' Hail Association in ample time to meet the bill for the restoration of their transparent roofing. This was the heaviest hail storm on record, and, as the pictures show, it made virtually a clean sweep of all glass in its path. In some of the large rose houses of the Humfeld Company but eleven lights remained unbroken in the southern slope. Their palm house was covered by lath, many of which were broken with the glass. Fortunately their palms escaped great injury, although the loss in other houses was severe.

**The Sale of Paris Green and Other Insecticides in Kentucky.**

ED. AM. FLORIST:—Can you tell me whether I have a right to sell Paris green and insecticides at retail to my trade. I

notice that Paris green is offered by seedsmen all over the United States, and they pay no license as druggists. Our druggist says that I must be a registered druggist before I can retail Paris green, and threatens to indict me if I continue to sell it. E. P. H.

Your query as to the right of a florist to sell Paris green and insecticides at retail in Kentucky, is received. I am not conversant with the Kentucky statutes and decisions, if any, but I understand that under section 2627 of Barber & Carroll's Statutes for 1894 (Kentucky) it is made a misdemeanor for any person not a registered pharmacist, to sell certain articles denominated as "poisons" and among those articles enumerated by the statute, appears Paris green. Insecticides are not therein mentioned specifically as poisons, but patent medicines or preparations of which insecticides may be one, are to be submitted to the State Board for examination for them to determine whether or not they are poisons in the meaning of the law, and if so, then they are to fall within the prohibition governing the sale of poisons. Your correspondent will have to be guided by the Kentucky law on that question. There is little doubt but that the state would have the right to regulate in a proper and uniform manner the sale of articles which endangered the public health. H. W. MAGEE.

**Cut Flower Price Lists Received.**

Cincinnati Cut Flower Co., Cincinnati; Wm. F. Kasting, Buffalo; Bassett & Washburn, Chicago.

**Catalogues Received.**

Tokyo Nurseries Co., Komagome, Tokyo, Japan, bulbs and plants; The Walker Fertilizer Co., Clifton Springs, N. Y., fertilizers; The Malin & Co., Cleveland, Ohio, wire; W. W. Rawson & Co., Boston, Mass., bulbs; Joh. Telkamp, Hillegom, Holland, bulbs; Rose Manufacturing Co., Niagara Falls, N. Y., insecticide.

**Greenhouse Building.**

Milford, Conn.—O. H. Nye, three commercial houses.

Skowhegan, Me.—C. A. Leighton, one commercial house.

Hingham, Mass.—Elijah Whitton, one greenhouse.

Landenberg, Pa.—C. F. Brandyberger, two commercial houses.

Danville, Ills.—John Willins, 100 foot modern rose house.

Laurel, Pa.—W. J. Palmer & Son, two houses 20x125, one house 18x165, connection house 10x100, boiler house 40x45, 65-foot chimney, vault 12x45 to hold 200 tons of coal.

Bangor, Me.—Carl Beers, one commercial "slope house" 45x150.

Chester, Pa.—W. L. Edwards, two commercial houses.

The Dalles, Ore.—A. C. Stubling & Son, one carnation house.

Atlantic, Iowa.—C. G. Anderson & Co., one rose house, one carnation house.

New Castle, Ind.—South Park Floral Company, three new houses each 24x125.

**Boilers.**

ED. AM. FLORIST:—We understand that the government uses a common tubular boiler for all heating purposes, and that they have found by experiments this is the best and most economical. The government, however, uses only hard coal.

This boiler has a return flue and then again returns the heat over the top of the boiler. Could we use such a boiler with soft coal, or would the soot accumulate badly by so much returning? J. & S.

The government uses a great variety of boilers, and so far as I am aware the kind described is no more used than several others. If a tubular boiler is desired I would use the ordinary form set so that the smoke will return through the tubes. Soft coal can be used with this boiler if a fair draft is provided. If an additional return flue is provided it will be necessary to have a much higher chimney, and with soft coal the results will be far less satisfactory than with the common tubular form. L. R. TAFT.

**Scale on Trumpet Vine.**

ED. AM. FLORIST:—I enclose sample of scale, taken from a trumpet vine. Can you inform me through the columns of your publication what species it is? ONTARIO.

The scale is some species of Lecanium; it would be difficult to determine just what one. As the young lice are just hatching, in order to get rid of them it would be well to wait a week or so, until they are all out, and then spray with a solution of whale-oil soap, one pound of soap to five gallons of water. The solution must hit the insects to kill them. Spray thoroughly and repeat the application in a week or ten days. M. V. SLINGERLAND.

**Piping.**

ED. AM. FLORIST:—Please tell me through the columns of your paper how much 4-inch hot water pipe will be needed to heat a greenhouse 16x90 feet and 12 feet high at the ridge, temperature in winter from 10° above to 10° below zero. The system will have to be arranged so that the boiler pit need only be about three feet deep. C. J. B.

If the walls are not more than five feet high and contain no glass, a temperature of 60° can be secured if seven lines of pipe in two coils are used, while but five will be required for 50°. Fairly good results can be secured if a 3-inch main is run to an elevated expansion tank from which 2½-inch supply pipes are carried to each of the coils. The 4-inch pipe should be so arranged that one pipe on each side of the house can serve as a flow, with the other beneath as returns. The supply pipes from the expansion tanks should connect with the 4-inch flow pipes. A better way would be to run two 2½-inch overhead flows to the farther end of the house and there connect each of them with either two or three 4-inch returns, the former for 50° and the latter for 60°. Unless the 4-inch pipe is on hand, a still better way will be to use 2-inch block pipe for the returns, four upon each side of the house being required for 60° and three for 50°. L. R. TAFT.

**Potting Chrysanthemums.**

ED. AM. FLORIST:—Kindly let me know through your columns if pot-bound chrysanthemums, when the buds make an appearance, should be re-potted or given additional food in some other way? P. N. H.

If the plants are intended for specimens and have been allowed to get so hard and

pot-bound as to have set their buds from that cause. I believe it is all up with them so far as good plants are concerned. I do not see how they could form buds if pinched back properly, as the shoots should not be allowed to get long enough to form a bud, but topped back after two or three leaves are made. There are some varieties which are not adapted for pot plants, as they run early into bud and it is next to impossible to make decent plants out of them. This is the wrong time of the year for chrysanthemums to be pot bound; they should now be making all the growth possible, for as soon as they are pot-bound they will become hard and stunted, and then it will be impossible to make good plants of them. I do not see that anything would be gained now by feeding the plants, for that would only hasten flowering if they are allowed to remain in the same pots; they might be given a larger pot, rubbing out the flower buds if the plants give any indication of breaking into new growth.

C. W. JOHNSON.

Grubs in Soil.

ED. AM. FLORIST:—When the soil in which plants are bedded becomes infested with grub worms, what can be done to stop them destroying the roots?

N. P. Co.

The "N. P. Co." are not sufficiently specific in their description of the grub worms with which they are troubled. It is very likely to be, I think, the larvae of the May beetles or June bugs, which are also frequently called cockchafers. Most of us have had our troubles with this pest, but so far as I know positively the loss of a plant is the only indication where the grub worm may be found, and the only cure when caught is a well directed pressure of the foot. Whoever has had a bad loss through the destructive larvae referred to is sure to have a nervous spell if some of them are found when the soil is being handled preparatory to its use. If this case is diagnosed correctly, the bark of the plant is eaten off just below the surface of the soil and above the root stock, and as soon as a plant exhibits signs of distress, we must immediately, though carefully, proceed to locate the enemy, and when found remove it with dispatch, for as soon as it has caused the death of one plant it will without any unnecessary delay move on toward another. These pests are generally to be found the most plentifully in old sod, and in some years they are apparently much more numerous than in others. When they are found in the soil before planting is commenced it is the safest way to have some plants in reserve to fill up possible gaps. Sometimes in beds we may by close observation notice what appear to be miniature mole runs, carefully follow these up, and the grubs can possibly be located. Anything applied to the soil that would be likely to kill the grubs would most likely kill or at least injure the plants, excepting probably benzolite or carbon. By the microscopic application of its death dealing power to underground parasites, I have had some success, but it has to be used with great care, on account of its inflammable character.

Hard Nuts to Crack.

Here and there upon life's journey, our exponents, fortunately where least expected a true philosopher, a man who, unostentatiously, perhaps, presents food for thought to his fellow men in such a simple,

sincere form that they can not escape the conviction that here, surely, is something demanding earnest consideration. Such a man is he who penned the letter to a friend from which we make this extract: "I am making out my Dutch bulb list but do not think I shall need 100 as it looks as if people want cheaper plants. \* \* \* Spring trade was good; sold more than in former years but didn't make any more money as I had to sell cheaper. When florists sell 4-inch geraniums for 60 cents a dozen, and send a man to plant them, one has to begin to hustle. It is almost useless to buy new varieties as some florists go to the different parties and ask for the plants in the fall, agreeing to replace the beds free of charge in the spring. Of course they go only where there are real good things and don't put back the same class of stock. Also they will sell to peddlers at the regular price less 25%. This is a fact. You can guess who is making the money; the peddler, of course. I oftentimes wonder why the wholesale houses set up another green-horn in business only to spoil the trade for a good florist. The consequence is that the florist has to buy in lesser quantities; it is that way with me; I can not risk another 100 azaleas when by the time they bloom cinerarias in 5 and 6-inch pots are offered for 10 and 15 cents. I have to drop off on French Komans when others will sell for 20 cents a dozen. Wonder if we could license the florist business, something as the plumbers do? \* \* \* My next door neighbor has discontinued his store; he says it didn't pay. \* \* \* You may think I am disgusted, but I'm not, by a long way. I sold all I could raise this spring and a good deal more, but am in a position to build another house. What do I want? I only wish I could collect a little more, but, don't you know, people think I am rich because I have a fine store in the city."

In these terse confidences of friend to friend there is that which should be given thought—hard, deep, earnest thought. To what level is trade sinking when florists will, to secure good stock, solicit the privilege of taking up old plants, offering to put out new ones free the following season? To what are we approaching in this race for cheapness? Are we on the down grade? Has this florist blown the call for brakes? Where is the remedy? Is it in better stock, more stock or less stock? Are we satisfied, as is our philosophical correspondent? Is all well, people esteeming us rich because we have fine stores? Surely these are matters of moment that demand consideration and answers which will do in practice that which we make them do in theory.

St. Louis.

OLD SOLE SCORCHES THINGS IN THE MIS-SOURI METROPOLIS.—PLANS FOR THE CONVENTION.—BOWLERS GET PRIZES.

Longings for the blasts of Old Boreas have come to Missourians for the past few days, for the hot wave hit us hard, and the volume of business and price and quality of stock shrink as would a snow-ball in midsummer. There was some demand for roses, but few good blooms were in the market. There was some sale for good white carnations, prices from 84 per hundred down, but the supply was not large. Sweet peas may be purchased anywhere at from 15 cents to 20 cents per thousand, and other outdoor stock is plentiful.

The Florists' Club will meet July 11 at 2 p. m. for a business session. Arrange-

ments will be made to attend the S. A. F. convention at Omaha. We anticipate a large attendance from here. The picnic committee has at last selected Belleville as the scene of the annual picnic, but has not yet decided upon a date.

The bowlers are practicing twice a week, preparatory to going to Omaha, and are making some excellent scores. Last Monday night's three games ended a series of twelve championship contests, in which J. J. Beneke won the most prized trophy with a grand average of 176. C. A. Kuehn was second with an average of 172. Emil Schray won the high score medal and left the mark at 244; John Young was second to him with 234, both very handsome records. R.

Relative Merit of Bulbs.

The *Gardeners' Chronicle* of June 11 contains the following account of a bulb election recently instituted by the Dutch Bulb Society:

HYACINTHS.	
Red and Rose-Colored.	
Votes.	
Moreno.....	268
Lord Macmurex.....	225
Charles Dickens.....	187
General Pellissier.....	172
Garibaldi.....	164
White Colored (Single and Double).	
Votes.	
L'Innocence.....	283
Mlle. v. d. Hoop.....	278
Bar. van Tuyll.....	245
Blue (Single and Double).	
Votes.	
Queen of the Blues.....	183
Czar Peter.....	150
Blondin.....	113
Leonidas.....	108
Yellow (Single and Double).	
Votes.	
King of the Yellows.....	191
Oubisque.....	89
Purple (Single and Double).	
Votes.	
Sir William Mansfield.....	129
L'Unique.....	52
Tulips (Single Early).	
Votes.	
Prins van Vostermate.....	322
Silvius Standard.....	204
Mor. Tresor.....	288
King of the Yellows.....	273
Couleur Cardinal.....	272
La Belle Alliance.....	257
Rembrandt.....	235
Selly.....	234
Duc van Tholl (yellow).....	223
Brud van Haarlem.....	222
Le Matelas.....	218
Tulips (Double).	
Votes.	
Couronne d'Or.....	310
Titan.....	254
Gloria Solis.....	231
Couronne des Roses.....	196
Rubra Maxima.....	191
Blanche Hative.....	175
El Torsador.....	160
Wilhelm II.....	156
Marriage de ma Palle.....	155
Tulips (Favourite).	
Votes.	
Parklet Perle.....	140
Adel. von Constantinopol.....	117
Bouton d'Or.....	80
Narcissus.	
Votes.	
Golden Spur.....	126
Poetens Ornatus.....	85
Henry Irvine.....	74
Albus Plenus Odoratus.....	41
Beolor Grandis.....	38
Von Sion Double.....	37

Votes.	
Conronne d'Or.....	310
Titan.....	254
Gloria Solis.....	231
Couronne des Roses.....	196
Rubra Maxima.....	191
Blanche Hative.....	175
El Torsador.....	160
Wilhelm II.....	156
Marriage de ma Palle.....	155

Votes.	
Parklet Perle.....	140
Adel. von Constantinopol.....	117
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Votes.	
Golden Spur.....	126
Poetens Ornatus.....	85
Henry Irvine.....	74
Albus Plenus Odoratus.....	41
Beolor Grandis.....	38
Von Sion Double.....	37

Roses on the Wooded Island, Jackson Park, Chicago.

Visitors to the World's Fair will remember the Wooded Island in Jackson Park, now much more deserving of the title than it was then. The trees, especially the willows, have made wonderful growth, bringing out in fuller relief the

purposes of the designers. One of its most attractive features at that time was the rose garden, and under the fostering care of Mr. Fred Kanst this has been so well maintained and developed that the display this season far excels anything of the kind ever seen in or around Chicago. Thousands through the island daily, and everyone seems to know that the roses are of a very superior quality this year. Mr. Kanst modestly assures us that the gratifying results are largely due to an exceptionally favorable season. While the weather may have had something to do with it, we know that the outcome depended more strictly upon skillful management. And yet, there is no secret about the methods practiced here, and they are essentially the same as are adopted by rose growers in all temperate countries. The beds are covered in autumn to a depth of two or three inches with leaves. This covering is removed in spring, and when the plants have been pruned—an operation performed when the wood buds are beginning to swell—a dressing of cow manure is applied and dug into the soil, taking care to keep as much as possible of it from direct contact with the roots. When the warm weather comes, and before the flower buds expand, the beds are given a coat of lawn mowings, and this in a general way completes the work. We selected the following as the best varieties for general cultivation: Caroline d'Arden, rose; Pæonia, red; Baroness Rothschild, rosy pink; Mrs. John Laing, pink; Comtesse de Sereny, silvery pink; Paul Neyron, deep rose; Camille de Rohan, deep crimson; Marshall P. Wilder, rose and carmine; Margaret Dickson, white; General Jacqueminot, bright crimson; Mabel Morrison, white; Jean Liabaud, crimson maroon; Anna de Diesbach, carmine. In another section of the park a very fine effect was produced with Fairy Queen against an extensive bank of shrubbery. J. T. A.

#### Shading Greenhouses Temporarily.

As I am now busy painting the rose houses, removing the soil and refilling the benches, I have thought it opportune to give your readers the benefit of my experience in making a rose house a comfortable place to work in when the sun is shining brightly on a hot summer day.

My first trial in this line was in 1889. I had just finished two new houses and it was bright, hot weather. We were anxious to get them filled and planted, but it was impossible to work in such a temperature. I suggested wetting the glass and dusting some flour on it. A pan of flour was soon procured and dusted over the house. We filled and planted the house in comfort, wondering, meanwhile why no one had tried the plan before. But we never used it again. It had to be taken off, for the roses would not grow without sunlight, and the time spent on the roof of those houses with soda, hot water, cloths, brushes and putty knives, rubbing and scraping, more than counterbalanced the pleasure and comfort we had experienced working in the shade.

The flour baked into bread and we did not run short of that article of diet very quickly, for it could be found on the glass until the following summer. Since then we have been in the habit of mudding our houses, that is, mixing up a bucket of mud and putting it on with a white-wash brush. This answered the purpose fairly well. A shower, however, is liable to wash it off before the work is finished, and one is then compelled to repeat the operation. But when the work indoors is

completed, the weather clerk sometimes forgets that his assistance is needed and it becomes necessary to ascend to the roof and wash it off. Then, too, it leaves the nice white paint all stained with mud, which will not come off until it is washed by a number of heavy rains.

This season I have been using shading cloth, unbleached muslin dipped in some preparation to prevent its mildewing. The seedsmen all keep it for sale. This we sew together so as to make one piece cover the front of the house and another to cover the back. It is quickly put up and as quickly taken down. Rains will not hurt it, and with care it ought to last several years. But if it only serves one year it will be a good investment, for the men with its aid will do the work in so much less time as will pay for the material, not to speak of the comfort in doing it. With this material in place, and the front and top ventilators wide open, the workmen can attend to their duties in the houses with no greater exertion than would be required outdoors in the shade of a tree.

I have sixteen houses to fill and sufficient material to cover two of them. When two are completed, the shading is removed to two others, and it is my intention to proceed in this way to the end. My planting, with less help, is in a more advanced state that it has ever been before at the same date, and the credit must certainly be given to this idea in shading.

JOSEPH HEACOCK.

Wyncote, Pa.

#### Baltimore.

CONDITIONS SHOW A SLIGHT IMPROVEMENT. —CLUB PLANS A PICNIC.—STORES KEEP UP APPEARANCES.—FUNERAL ARRANGEMENTS.

The prolonged dry weather has had the effect of considerably shortening the supply of outdoor flowers, and a slight improvement in the market is the consequence. Whether the improvement will continue remains to be seen, as a heavy thunderstorm has just relieved the drought, but unless followed by others pretty frequently the relief will be only temporary.

The Florists' Club was to have considered the time and place of the annual excursion at the last meeting, but it was judged best to put it off till next meeting, July 11.

The stores keep up a brave show of colored cut flowers in the windows, though it must be done almost altogether for appearance's sake, as the only really reliable demand just now is for funeral work. Speaking of funeral work recalls a large casket cross seen last week, made entirely of white sweet peas and adiantum, which would have been very pretty had the sweet peas been either all dead white or uniformly pearl, sulphur or skimmed-milk blue; but as it was, the tinted whites looked bad beside the pure whites, and each tint seemed to have a bad effect on its neighbor, thus spoiling what was otherwise a chaste and tasteful arrangement. MACK.

#### Atlantic, Iowa.

Spring trade has been good with all the nurserymen here and C. G. Anderson & Co., who started in business a year ago, are so well pleased with their success in floriculture that they are building two new houses, one for roses and one for carnations. The John C. Moninger Company of Chicago, supplied the material and the structures are to be thoroughly modern in every respect. Anderson &

Co. have a virtual monopoly of the trade in this and several adjacent towns and, with their new houses, will have a very fine establishment for a city of this size.

#### Auburn, N. Y.

It is estimated that hail did \$30,000 damage here on June 12. As is usual in such cases the florists were the heaviest losers, A. Patrick alone losing nearly \$6,000 in broken glass and ruined stock. Others who suffered severely were Carl Armbruster, J. Elletson, Jacob Wide, James Morgan and Hick & Son, who have, in the aggregate, about 40,000 feet of glass. Besides these commercial losses several fine private greenhouses, notably those of the Misses Willard and Mrs. Osborn, were greatly damaged.

ROCK ISLAND, ILLS.—John J. Mulhern, who had established a reputation as a gardener, died June 20. He was a native of Ireland and was 60 years of age.

#### SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a live-line want adv. free to be used at any time during the year.

**SITUATION WANTED**—As foreman, by first-class rose grower. Beauty growing a specialty. Content to take full charge of commercial place; married. First-class references.

F. G. Englewood, N. J.

**SITUATION WANTED**—By a practical working foreman; 13 years' experience in growing roses, carnations, violets, mums and pot plants; age 28, single. State wages. Address

FRANK FLORIST, White Hall, Ill.

**WANTED**—First-class rose grower, as working foreman, with references.

WAMELINK BROS., Cleveland, O.

**WANTED**—Single man, German, for greenhouses; must be good on design work. Steady place for good, sober man. Inquire

VAUGHAN'S SEED STORE, Chicago.

**WANTED**—Man to take charge of range of ten or twelve rose houses; must understand steam and hot water heating. Address

A. FRIEDMAN, Woodlawn, New York, N. Y.

**WANTED AT ONCE**—Florist, single, steady, to grow roses, carnations, violets and general greenhouse stock. State wages expected with board. Address

JOS. LABO, Joliet, Ill.

**WANTED**—Working foreman. Must be a successful propagator of roses, hardy vines, new hardy shrubs etc. Greenhouses latest construction, steam heat. Suburb of Philadelphia. Must be a married man, sober and industrious, and must furnish best references as to experience in this line. State age, nationality and wages expected.

M. T. S., care American Florist, Chicago.

**FOR SALE**—100 boxes 14x24, and 50 boxes 16x14 single thick A glass. Address Box 235, Ironton, O.

**FOR SALE**—Well-paying retail florist business, store and greenhouses. J. N. BURNS, 630 W. Van Buren St., Chicago.

**FOR SALE**—One 10 H. P. tubular boiler in good condition; only used two years. Price \$300.00 here. MRS. H. C. BTCHLER, Oconomowoc, Wis.

**FOR SALE CHEAP**—Only greenhouse in town of 4000 L. Southern Michigan. Good reason for selling. Address C. H. PICK, Hudson, Mich.

#### FOR SALE!

Three greenhouses; 4 lots in fine shape in the city limits of the best mining town of America; must sell; have mining interests. Address

538 So. 1st St., Cripple Creek, Colo.

#### CHICAGO LOTS FOR SALE!

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot, sewer and water. Suitable for greenhouse purposes.

JAMES ROOD, JR.,

Tel. Main 368, Room 5, 154 Lake St., Chicago.

#### FOR SALE!

The largest greenhouse plant in Texas. As we have decided to devote our whole attention to our seed business, we offer our greenhouses and 10 acres of land for sale. Have 15,000 square feet of glass, all perfectly new and built with all modern improvements. Will sell land, greenhouses and stock or greenhouses and stock and rent land. We have the largest trade in plants and cut flowers in Texas. This offer will step into a first class established business. This is a chance that is seldom offered. Write for particulars if you mean business to

TEXAS SEED & FLORAL CO., Dallas, Texas.

# FORCING BULBS

We have closed contracts with some of the best and most reliable producers for our stock of Roman Hyacinths, Tulips, Dutch Hyacinths, Von Sion Narcissus, Paper White Narcissus, Valley, Harrisii, Longiflorum, Azaleas, and all leading Forcing Stock. Give us a list of your wants and we will quote same.

DON'T FORGET THAT WE ARE STRICTLY IN IT ON SUPPLIES OF ALL KINDS, SEEDS, BULBS AND CUT FLOWERS.

VAUGHAN, McKELLAR & WINTERSON, 45, 47 and 49 Wabash Ave., CHICAGO.

**E. H. Hunt**  
THE "OLD RELIABLE" FOR  
**WHOLESALE CUT FLOWERS**  
Hunt's Flowers  
Go Everywhere  
76 Wabash Ave., CHICAGO.

**Wholesale Flower Markets**  
CHICAGO, July 1.

Roses, Beauties.....per doz.	.75@2.50
" Brides.....	2.00@ 3.00
" Meteors, Kaiserins.....	2.00@ 5.00
" Bridesmaids.....	2.00@ 3.00
" Gontiers, Perles.....	1.00@ 3.00
Carnations, common.....	.40@ 1.00
" fancy.....	2.00@ 3.40
Marguerites.....	.50
Lily Oratum.....	8.00
Harrisii, Callas.....	3.00@ 5.00
Lily of the valley.....	3.00@ 5.00
Sweet peas.....	10@ .15
Gladoli.....	4.00@ 5.00
Adiantum.....	.30@ 1.00
Smilax.....	8.00@ 10.00
Asparagus.....	40.00@ 75.00
Pansies.....	.50
Paeonies.....per dozen.	.25@ .50

**KENNICOTT BROS. CO.**  
**WHOLESALE CUT FLOWERS**  
AND FLORISTS SUPPLIES.  
WIRE WORK  
A SPECIALTY. 88 WABASH AVE. CHICAGO.

**E. C. AMLING**  
**Wholesale Cut Flowers**  
51 Wabash Avenue,  
W. S. HEFFRON, Mgr. ....CHICAGO.

**A. G. PRINCE & CO.**  
**Wholesale Cut Flowers**  
AND FLORISTS' SUPPLIES.  
Agents for the Hinsdale Rose Co. Special attention paid to shipping orders.  
88 & 90 Wabash Avenue,  
CHICAGO.  
Telephone Main 3208.

**Smith Wholesale Florist**  
19-21  
E. RANDOLPH ST.  
CHICAGO

**A. L. RANDALL**  
**Wholesale Florist**  
Don't Forget that we are at 4 Washington St., Chicago.  
Write for special quotations on large orders.

It is not much trouble to mention the AMERICAN FLORIST when corresponding with an advertiser.

WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.

**WIETOR BROS.**  
SUCCESSORS TO  
ROGERS PARK FLORAL CO.  
Wholesale Growers of **CUT FLOWERS**  
51 WABASH AVENUE,  
Headquarters For American Beauties. ....CHICAGO

**S. B. WINTER,**  
(Successor to WINTER & GLOVER.)  
21 Randolph St., Chicago.  
**HIGH GRADE CUT FLOWERS,**  
PACKED RIGHT,  
so they will reach you in just as good condition as they reach us.  
**WIRE DESIGNS: A Full Line.** Write us for our illustrated Catalogue.

**J. A. BUDLONG**  
37-39 Randolph St., CHICAGO.

**Bassett & Washburn**  
88 Wabash Ave., CHICAGO.  
Wholesale Dealers and Growers of **Cut Flowers**  
GREENHOUSES: HINSDALE, ILL.

**ILLINOIS CUT FLOWER CO**  
**Wholesale Florists.**  
**J. B. DEAMUD**  
51 & 53 WABASH AVE. CHICAGO.

# REINBERG BROS.

WHOLESALE GROWERS OF

**Cut Flowers**

600,000 FEET OF GLASS. We can fill your orders on short notice with all leading varieties of flowers and arrangements. We are headquarters for Fine American Beauties. Give us a trial and convince yourself.  
PLANTS SENT BY EXPRESS AT PLANT RATES, 20 PER CENT LESS THAN MERCHANDISE RATES.....

# ROSE PLANTS

	Per 100	Per 1000
American Beauties, 2 1/2-in.	\$4 00	\$35.00
" " 3-in.	5.00	45.00
Meteors..... 2 1/2-in.	2.50	22 50
" " 3 in.	3.50	30.00
Brides..... 2 1/2-in.	2.50	22.50
Bridesmaids..... 2 1/2 in.	2.50	20.00
Testout..... 2 1/2-in.	2 50	22 50
Belle Siebrecht..... 2 1/2-in.	2.50	22 50
La France ..... 2 1/2 in.	2.50	20 00
Perle..... 2 1/2-in.	2.50	22.50

SMILAX PLANTS, \$2 per 100; \$15 per 1000.

REINBERG BROS., 51 Wabash Avenue, CHICAGO.

# MacDonald & McManus

... SUPPLY ...

ORCHIDS

EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING  
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

TELEPHONE  
2778 38TH STREET.

50 West 30th Street, NEW YORK CITY.

## TRAENDLY & SCHENCK, Wholesale Florists,

Control the stock of many celebrated growers and  
are prepared to quote prices on First Grade  
Cut Flowers. All varieties.

38 West 28th St., and Cut Flower Exchange,  
Tel. 961 18th Street. NEW YORK CITY.

## JOHN YOUNG, ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

51 W. 28th Street. NEW YORK.

Price list on application.

## CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.

The New England Headquarters  
for the best grade of flowers at all  
seasons of the year....

9 Chapman Place, 15 Province Street,

BOSTON, - MASS.

## THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,  
112 and 114 West 24th Street,

Telephone 733-18th. NEW YORK.

CONSIGNMENTS SOLICITED.

Special Attention Given to Shipping Orders.

Mention American Florist.

## M. A. HART, Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,

NEW YORK CITY.

THE BEST MARKET IN NEW YORK.

'Phone 1307 38th St.

## Wholesale Flower Markets

NEW YORK, June 29.

Roses, Beauties, Hybrids.....	2.00@16 00
" Bridesmaids, Testouts, Brides.....	50@ 3 00
" Morgans, Meteors.....	50@ 2 00
Carnations.....	3@ 1 50
Lily of the valley.....	1.00@ 3 00
Sweet peas, per 100 bunches.....	1.00@1:50
Harrill.....	3 00@ 4 00
Smilax.....	8 00@10 00
Asparagus.....	40.00@50.00
Cattleyas.....	40.00@50.00
Peonies.....	50@ 2 00

BOSTON, June 29.

Roses Beauties.....	5.00@15.00
" Morgans, Meteors.....	2 00@ 4 00
" Brides, Bridesmaids.....	1 00@ 5 00
Carnations.....	25@ 1 00
Lily of the valley.....	2.00@ 3 00
Corndowers.....	50@ 1 00
Harrill.....	3 00@ 5 00
Sweet peas.....	10@ .20
Smilax.....	12.00@15.00

PHILADELPHIA, June 29.

Roses, Beauties.....	1 00@20.00
" Jacobs.....	1.00@ 3 00
" Teas.....	2.00@ 6 00
Carnations.....	1.00
Peonies.....	2 00@ 4 00
Lily of the valley.....	2 00@ 4 00
Harrill.....	4.00@ 6 00
Sweet peas.....	40@ .75
Cattleyas.....	35.00@50.00
Smilax.....	15.00@20.00

## John I. Raynor,

49 WEST 28th STREET,

NEW YORK.

SPECIAL EXTRA STOCK OF

AM. BEAUTY, METEOR,  
BRIDESMAID, BRIDE.

Record Breaking Carnations

ALL THE YEAR ROUND.

## THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

## WALTER F. SHERIDAN, WHOLESALE FLORIST,

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

## Rose Growers

Will find a good market and good  
returns for their stock at....

JULIUS LANG'S

53 W. 30th Street, - NEW YORK.

Edward C. Horan,

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## WHOLESALE • FLORIST.

Careful Shipping to all parts of the country  
Price list on application.

## WM. C. SMITH, Wholesale Florist,

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Consignments Solicited. Special attention given to  
shipping orders.  
Long Distance Telephone 5008 A.

## N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry.  
Open for Cut Flower Sales at 6 o'clock  
Every Morning.....

DESIRABLE WALL SPACE TO RENT  
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

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Wholesale Florists

111 West 30th Street, NEW YORK.

Consignments Solicited. Telephone, 260 38th St.

## FRANK MILLANG, CUT FLOWERS,

WHOLESALE COMMISSION,

408 E. 34th Street,

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## Asparagus Plumosus Nanus.

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

## Now They're Cheap!!

FLOWERS, ALL KINDS.

PLENTY OF THEM AT

J. K. ALLEN'S 57 WEST 28th STREET,  
NEW YORK.

TELEPHONE 382 38th St.

## GALVIN & CO. Wholesale Florists

AND DEALERS IN ALL

FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.

Cut Flower Consignments Solicited. Best mar ret.

## JAMES M. KING Commission Dealer in CUT FLOWERS.

Good Money for your Flowers.

Good Flowers for your Money.

49 WEST 29TH ST., NEW YORK.  
TELEPHONE 1675 38th St.

## GEORGE A. SUTHERLAND, Cut Flowers AND Florists' Supplies WHOLESALE.

67 Bromfield St., BOSTON, MASS.

Wholesale Florists JOBBERS IN  
ALWAYS ON HAND  
CARNATIONS, FLORIST'S  
BRIDESMAIDS, SUPPLIES.  
BRIDES.

N. F. McCarthy  
FLORISTS' VASES.  
Horticultural Auctioneers,  
84 HAWLEY STREET, - BOSTON.

Buffalo.

SUMMER CAUSES DECLINE IN TRADE.—THE EARLY CLOSING MOVEMENT.—FLOWERS IN THE PARKS.—PERSONAL JOTTINGS.—PICNIC PROSPECTS AND AUTUMN EXHIBITION PREMIUM LIST.

The past week has shown a slight decline in trade and was a forewarning of what we will have from the first of July. Flowers still continue in fair supply. Carnations are keeping very well and candidum and auratum lilies are fine and selling fast.

The park flower beds present a very nice appearance now and when Niagara square is changed as the plans now are, it will be a grand place. Mr. Olmsted, the landscape artist, was here last week to confer with the park commissioners regarding some changes in the park. Prof. Cowell, of South Park, reports progress in his new greenhouses.

W. F. Kasting took a business trip of a few days to Cleveland, Erie and Westfield and brought back John Shoentelt, son of Fred Shoentelt, of Westfield, who is enjoying a vacation from the Annapolis Naval Academy. Rebstock is showing a fine lot of *Dracena terminalis* in his window and is attracting a great deal of attention.

Now that the hot summer months are here I hope that the florists will close at 5 p. m. during July and August and let us all have the benefit of the pleasant evenings, as the trade done after 5 p. m. does not pay one for the light, and everything is closed except saloons and cigar stores. There is some talk now of our annual outing, and we are waiting for President Scott to call a meeting and set a day for the picnic, which has grown to be a very enjoyable affair.

The Buffalo Florists' Club has issued its premium list for the annual autumn exhibition to be held November 9, 10 and 11. There are to be three classes, thirty-seven sections, for chrysanthemums and two classes, twenty-four sections, for cut roses and other blooms. Liberal cash prizes will be awarded in many sections; in the others cups, plates and other articles of value will be given. Lists and entry blanks may be obtained by addressing Wm. Legg, secretary, 1440 Delaware avenue. W.

Rochester, N. Y.

A gradual falling off in the demand for cut flowers is now everywhere noticeable. The dull season is rapidly approaching, and the retailers will not be overworked for several months to come. All flowers are quite plentiful and very cheap. The retail prices in some establishments are ridiculously low, and it is difficult for the other dealers to obtain a fair price for even the best of stock. Generous and frequent orders for funeral work have kept the store men going for the last two weeks. Commencements also have materially assisted in the disposal of the liberal supply of flowers, but the present week opened very dull, and everybody can take it easy.

Notable among the cut flowers in the market at present are the large clusters of Crimson Rambler roses. They are really magnificent, but unfortunately do not command a very high price in these dull days, still they are very desirable because they are now just beginning to bloom, while other outdoor roses are almost past their best; and as the Rambler will continue in good shape for three or four weeks, the rose season will be prolonged to the end of July. K.

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST....

495 Washington St., Buffalo. N. Y.

Also Dealer in Florists' Supplies and Wire Designs

Wholesale Flower Markets

CINCINNATI, June 30.

Roses, Beauties, select.....	15 00
"    "    medium.....	8 00@10 00
"    Brides, Bridesmaids.....	2 00@ 3 00
"    Metears.....	3 00@ 4 00
"    Perles.....	2 00@ 3 00
Carnations.....	75
"    fancy.....	1 00
Sweet peas.....	.15@ .25
Gladstoll.....	3 00
Smilax.....	10 00@12 50
Adiantum.....	1 00
Asparagus.....	50 00

ST. LOUIS, June 30.

Roses, Beauties.....	2 00@20 00
"    Metears.....	2 00@ 5 00
"    Brides, Bridesmaids.....	2 00@ 5 00
"    Perles.....	2 00@ 3 00
"    Kaiserlins.....	2 00@ 8 00
Carnations.....	.75@ 1 00
Violets, California.....	.35
"    double.....	.35
Lily of the valley.....	2 00@ 3 00
Harristoll.....	6 00
Sweet peas per 1000.....	.15@ .20
Callas.....	5 00@ 6 00
Smilax.....	15 00

MILWAUKEE, June 30.

Roses, Beauties.....	5 00@20 00
"    Brides, Bridesmaids.....	2 00@ 4 00
"    Perles.....	1 00@ 3 00
"    Metears.....	2 00@ 4 00
Carnations.....	.50@ 1 00
Lily of the Valley.....	2 00@ 3 00
Sweet peas.....	.25
Peonies.....	2 00@ 4 00
Marguerites, yellow.....	2 00@ 5 00
Smilax.....	10 00@12 50
Adiantum.....	.50@ 1 00
Asparagus.....	50 00

BUFFALO, June 30.

Roses, Beauties.....	5 00@30 00
"    Brides, Bridesmaids.....	2 00@ 6 00
"    Metears.....	2 00@ 6 00
"    Perles.....	1 00@ 2 00
"    Kaiserlins.....	2 00@ 6 00
Carnations, white and colored.....	75@ 1 00
"    fancies.....	1 00@ 4 00
Lily of the Valley.....	40@ 50
Sweet peas per dozen bunches.....	12 50@15 00
Smilax.....	1 00@ 1 25
Adiantum.....	50 00@75 00

LOUISVILLE, June 30

Roses, Beauties per dozen.....	1 00@2 00
"    Brides, Bridesmaids.....	2 00@ 3 00
"    Metears.....	2 00@ 3 00
"    Kaiserlins.....	2 00@ 3 00
"    Perles.....	2 00@ 2 50
Carnations, fancy.....	2 00@ 3 00
"    common.....	1 00@ 2 00
Lily of the Valley.....	.50@ 2 50
Callas, per dozen.....	75@ 1 00
Sweet peas.....	15@ .20
Adiantum.....	.75
Marguerites.....	.75
Smilax, per dozen.....	1 25@ 2 00
Adiantum.....	.75
Asparagus, per string.....	.75

THE EMERSON PATENT BINDER

Price postpaid 75 CENTS.

Showing the appearance of the binder when quite full of THE American Florist.

Every subscriber should have one.

American Florist Co CHICAGO.

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WIRE WORK

WE MAKE IMPORTERS OF BULBS

PHONE 1273 BOX 75

ALWAYS ON HAND FINE STOCK OF CUT FLOWERS

ELLIS & POLLYWORTH MILWAUKEE WIS.

C. A. KUEHN, Wholesale Florist, 1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

C. W. WORS FLOWERS

2740 Olive Street, ST. LOUIS, MO.

at WHOLESALE....

.....ROSES, and a full line

Headquarters for the South West....

ST. LOUIS CUT FLOWER CO. Wholesale Florists

E. H. MICHEL

1620 Olive St. ST. LOUIS, MO.

CINCINNATI CUT FLOWER CO. SUCCESSORS TO H. L. SUNDERBRUCH CO. Wholesale Commission Florists

4th and Walnut Sts., CINCINNATI, OHIO.

Consignments Solicited, Special Attention Given to Shipping Orders.

HOLTON & HUNKEL CO. SUCCESSORS TO The Wisconsin Flower Exchange. Fresh Cut Flowers, Florists' Supplies Manufacturers of WIRE DESIGNS

Consignments Solicited. Phone Main 574 457 Milwaukee St., MILWAUKEE.

A material has been discovered for glazing which after thorough tests has been proven far superior to putty; it is called MASTICA.

It is not affected by extremes of weather, and is thus especially adapted for greenhouses, etc. Send for descriptive circular of Mastica and Mastica Glazing Materials.

F. O. PIERCE CO., Sole Manufacturers, 170 Fulton Street, NEW YORK.

"We Kill Weeds Scientifically" How?

ADDRESS THE FAIRMOUNT CHEMICAL LABORATORY N. W. Corner Broad Street and Fairmount Avenue, PHILADELPHIA, PA.



**Helpful Reminders.**

A lot of good potting soil should be provided in a convenient place and all the empty pots should be piled securely out of the way. Most of us have pots rolling over the floor, piled high on the potting bench, no matter how small the bench is. Raffles, scissors, trowels, spade, baskets, a few stakes, etc., should always be close to where you are filling orders, but we stumble over a string of pots a dozen times and finally break them. "I haven't time," is allowed to pass for an excuse, but it saves time to do work properly as you go along. Provide a place for pots where they can be conveniently piled from your wagon as it comes home with a few; this is where most of us miss it. Arrange to keep the larger pots by themselves; each size should be separated. We are shown some well provided and managed places and we say, "Well, they can afford to keep work done up." This is nearly always at larger places where they would soon be ruined were they to indulge in the slipshod methods some of us are guilty of.

You must have plenty of good soil; mould, sand, peat and mixed soil for general potting. Greenhouses with good soil, usually produce good crops, but with poor soil no one does. What to use and how to prepare it depends on circumstances. The finest soil for general purposes is made by burning turf and mixing with it sand and manure according to crops. It is always sweet and porous and you cannot go far wrong with such soil. Many other arrangements can be made for some parts of the country, but always aim to get the soil that contains the most nutrition; then arrange it so that air and water can penetrate easily. It should not be a soil that will hold water to the exclusion of air, or, on the other hand, let the water pass through it too readily. It is moisture naturally rising that is made use of by the roots, and this movement cannot take place when too much water is held without the requisite amount of air. To provide this porosity is the only use of sand, and the burnt sod embodies this valuable property and at the same time is very nutritive. Those of you near tanneries can get burnt tan bark. When you do use sand have it clean and sharp. You must consult the nature of your crops to some extent and contrive to make the best use of what may be at your command; but the point I wish to emphasize is, that you cannot afford to burn coal, hire help and pay taxes for crops that are planted in poor soil, and now is the time to provide the best. This is your "goose that lays the golden egg."

Prepare paper bags that hold one bushel and sell your soil for fifty cents a sack. If it is good soil you will sell enough to pay for the labor in mixing your whole supply.

Go over all your heating pipes and have all leaks repaired at once. Figure up how much coal you burned last year and see if you can purchase next season's supply any cheaper by buying early and in quantity. C. B. W.

LYNN, MASS.—Quinlan Bros. celebrated the tenth anniversary of the establishment of their business at 11 Summer street on Monday, June 20.

OSKALOOSA, IOWA.—The Kemble Floral Company, which was established in 1870, reports an excellent spring trade. They have 30,000 feet of glass and their stock is looking very fine.

**Going, Going, Gone!**

and it's your own fault if you don't get the bargains. Auction Sales of Plants every Tuesday, Thursday and Saturday at 9 A. M. at . . . . .

**MCCARTHY & CO.'S**

84 Hawley Street, BOSTON, MASS.

If you want to buy, send for Catalogues. ♣ ♣ ♣  
If you want to sell, write for terms. ♣ ♣ ♣

**IT PAYS!**

**Your Spring Plant Trade**

will come easier, and be more profitable if solicited in the nice way you can do such things by means of

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**FLORAL BLOTTERS**

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BUFFALO.

**THE Regan Printing House**

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♣ ♣ ♣ CHICAGO ♣ ♣ ♣

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**JULY 8**

The Nickel Plate Road will run an excursion to Chautauqua Lake, at one fare for the round trip. Write to J. Y. Calahan, 111 Adams St., Chicago, for particulars. Telephone Main 3389 (39)

**EXCURSION TO CHAUTAUQUA LAKE**

over Nickel Plate Road, July 8, at one fare for the round trip. By depositing tickets with Secretary of Chautauqua Assembly, same are available for return passage thirty days from date of sale. City Ticket Office 111 Adams St. Van Buren Street Passenger Station, Chicago, on the loop. Telephone Main 3389. (40)

**THE NICKEL PLATE ROAD**

will sell excursion tickets to Chautauqua Lake and return on July 8, at one fare for the round trip, with return limit of thirty days from date of sale by depositing tickets with Secretary of Chautauqua Assembly. Tickets good on any of our through express trains. Cheap rates to many other points East. Communicate with this office, 111 Adams St., Chicago, for any further information desired. Van Buren Street Passenger Station, Chicago. Telephone Main 3389. (41)

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A Weekly Illustrated Journal.

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The "GARDENERS' CHRONICLE" has been for over FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE.

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41 Wellington St., Covent Garden, London, England.

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For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,

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FLORISTS' MUTUAL

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Application Blanks and Prospectus Ready....

Write now. Delays are dangerous.

W. J. VESEY, Sec'y. - Ft. Wayne, Ind.

**MAIL** For Insurance against damage by hail, Address

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The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price \$2.00. In Flexible Leather Binding, \$3.00. Fully revised to date with upwards of

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**THE NURSERY TRADE.**

AM. ASSOCIATION OF NURSERYMEN.  
A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.;  
GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

**Park Men Choose Officers.**

The American Park and Outdoor Art Association, was the designation in Article I of the constitution adopted at the Minneapolis meeting last week. The following officers were elected: President, C. M. Loring, Minneapolis; secretary, Warren H. Manning, Boston; treasurer, E. B. Haskell, Boston; vice-presidents, P. H. A. Balsley, Detroit; W. H. Olmsted, Boston; G. H. Warder, Cincinnati; E. J. Parker, Quincy, Ill.; Lewis Johnson, New Orleans; M. L. Moore, Toledo.

**President A. L. Brooke.**

A. L. Brooke, the newly elected head of the American Association of Nurserymen, claims as the place of his nativity, Ohio, the mother of presidents. It was at Lancaster upon November 29, 1847, that Mr. Brooke made his entrance in the community in which he lived during the early years of his life. He was a farmer's

son but was accorded a collegiate course and studied classics at Wittenberg College at Springfield, Ohio, after which he was for ten or twelve years principal of schools in various cities through the state. In September, 1886, Mr. Brooke removed to Topeka, Kas., and embarked in the nursery business, meeting with excellent success. His nurseries now embrace 250 acres. For several years he has been president of the Western Wholesale Nurserymen's Association and is Topeka's American Protective Association representative in the state legislature. Mr. Brooke has long been prominent in horticultural affairs both local and national having been an active member of the tariff and transportation committees of the American Nurserymen prior to his election to the presidency of the association. President Brooke is enthusiastic over the future which he foresees for the nursery business in the United States. He reports good spirits prevail-

**San Jose Scale Legislation.**

Bulletin No. 74 of the Virginia Experiment Station contains the Virginia law in regard to this pest. It is gratifying to note that one state has adopted common sense measures toward preventing the spread of this dreaded insect. The inspector is given power to decide whether infested plants shall be treated or destroyed, the owner having the right of appeal to the Board of Control of the State Agricultural Experiment Station, but the appeal must be taken in three days. The destruction of the trees or their treatment is to be done under the supervision of the state inspector but at the expense of the owner. Provision is, however, made that the boards of supervisors of any county may bear the expenses of such work within their county if they choose. It is made unlawful to offer for sale, sell, give away, or transport within the bounds of the state, plants, scions, trees, shrubs or vines infested with the San Jose scale and proper penalties are provided for offenders. This latter provision is the "meat in the cocoanut." It is certainly reasonable and right to require dealers to make sure their stock is clean and to punish them for selling any which is not clean. No certificate subterfuge is provided.

HOLYOKE, MASS.—The rose show of the Horticultural Society was held on June 20 and 21 at the Unitarian church parlors. Owing to rain and cold weather the display was smaller than those of previous years and the quality of roses shown was not quite as good as heretofore. The attendance was disappointingly light. Rev. E. A. Reed won the silver cup for twenty-four blooms in twelve varieties. He having won the cup for three successive years, it now becomes his property. E. H. Howland's exhibit of foliage plants was excellent. E. D. Shaw and E. S. Waters were represented by fine collections of roses.

BALTIMORE, MD.—Louis A. Le Brun, aged seventy years, a widely known florist, died at his home in Canton suburb on June 13. He had been a resident of Canton for sixty-seven years, and 120 members of the family live in the vicinity. He is survived by a widow, three children and twenty grand children, several of whom are engaged in the florist business.

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THE MOST COMPLETE STOCK IN AMERICA.  
PEONIES, PHLOX, IRIS, DELPHINIUMS,  
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The Reading Nursery, READING, MASS.  
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- 20,000 American Arbor Vitas, 2 to 8 feet specimens and budding plants.
- 5,000 Pyramidal Arbor Vita, 2 to 4 feet.
- 20,000 Compact, Globe and other dwarf Arbor Vitas, all sizes.
- 3,000 Nordman's Silver Fir, 1 to 2 1/2 feet.
- 2,000 European Silver Fir, 2 to 4 feet.
- 5,000 Hemlock Spruce, 1 to 4 feet.
- 10,000 Norway Spruce, 3 to 8 feet.
- 10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.
- 5,000 Irish Junipers, 1 to 2 1/2 feet.
- 10,000 Pines, Austrian, Scotch, Excelsa, White and dwarf varieties, all sizes.
- 1,000 Eucalyptus Japonica, 18 to 36 inches.
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- 3,000 Mahonias aquifolia and Japonica.
- 3,000 English Ivy, strong plants.

Prices low. Correspondence solicited.

**THE WM. H. MOON CO., Morrisville, Pa**

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A SPLENDID ASSORTMENT OF  
**FIELD-GROWN HARDY ROSES**  
Clematis, Ornamental Shrubs and Trees, Pæonies,  
Herbaceous Plants, Small Fruits, Fruit Trees.

Price list ready in July.  
Special quotations gladly submitted by letter.  
**Jackson & Perkins Co.** Newark, New York.

**NEW SEEDS.**

- PRIMULA—Florist strain, trade pkt. 50c; double trade pkt. \$1.00.
  - PANSY—Mittling's Giant Flowering, florist strain, trade pkt. 50c; double trade pkt. 75c, or 1/4 oz. \$1.00, 1 oz. \$4.00.
  - PANSY—German, trade pkt. 25c; double pkt. 40c, or 1/4 oz. 50c; 1 oz. \$2.00.
  - CINERARIA Hybrid—Trade pkt. 50c; double trade pkt. \$1.00.
- Above seeds have been tested and found 91 per cent. new 1888 seeds.  
**THE MORRIS FLORAL CO., Morris, Ill.**

**HARDY SHRUBS**

Assorted in 25 Varieties.  
My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

**SAMUEL C. MOON,**  
MORRISVILLE, - Bucks Co., PA.

**OUR SPECIALTIES ARE Azaleas, Roses, Rhododendrons**

New and rare hardy plants for forcing. Novelties to Ferns (raised by the largest London grower). The newest and best varieties of roses, H. P. and Tea scented from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.  
**F. Brunton & Co.** IMPORTERS & EXPORTERS OF NEW AND RARE PLANTS.  
136 Boylston St., BOSTON, MASS.

**For Sale! 10,000 Seedling Ampelopsis**

Fine plants from seed bed, \$5.00 per 1000. Cash with order. Will exchange for small palms.  
**Geo. A. Black & Bros.**  
Lutherville Nurseries, - Lutherville, Md.

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**DIRECTORY** Of Florists, Nurserymen & Seedsmen of the United States and Canada. Price Two Dollars. In Flexible Leather Binding, Three Dollars....  
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A. L. BROOKE  
President-elect Am. Association of Nurserymen

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**A LIVE AND RELIABLE CORRESPONDENT WANTED** in every live city in the world. We enable you to deliver flowers by telegraph. A profitable convenience. For particulars, write  
**C. B. WHITNALL,**  
438 Milwaukee St., MILWAUKEE, WIS.

**Hybrid Wichuraiana Roses.**

Your Boston correspondent mentioned the fact of Mr. W. A. Manda having exhibited before the Massachusetts Horticultural Society a hybrid Wichuraiana rose with evergreen foliage, but feeling that Mr. Manda might have very much more in his South Orange, N. J., nursery, I ran out there the other day.

To those who know the ability and enthusiasm of Mr. Manda, it will be no surprise to be told that he has gathered together one of the finest and most select collections of salable plants in this or any country. It would take a volume of the FLORIST to describe his treasures, in orchids, palms, ferns, greenhouse flowering plants, and hardy perennials and shrubs of the most desirable forms, many of them seldom seen elsewhere.

There are to be found here golden-flow-cred, spotted callas; Adiantum capillus veneris imbricatum, known to some as the hardy Farleyense, in fine shape with its beautiful pinnæ, the very counterpart of the familiar tender variety; asparagus in many fine species; seedling anthuriums with pink and white spathes, and the familiar scarlets in many new shades; Abutilon Savitzii with foliage as clear and fine as the variegated box elder and standing exposure much better; Peperomia sarmentosa, promising to be a unique and beautiful basket plant, and thousands of other things which I cannot mention, because I want to talk about the roses.

As you know, Mr. Manda has been working with the popular very hardy trailing or climbing Wichuraiana as a seed parent since he started for himself at South Orange, and his set of hybrids sent out two years ago, have had a deserved and wide popularity, but it is pre-eminently under the raiser's care that the merits of these beautiful creations can best be seen. He has tested them in every conceivable way, on dry hill sides, in the shade, their roots exposed to the winter, and Mr. Robert M. Gray forced a set of them at Julius Roehrs' and found them as free flowering as Crimson Rambler. With their fast multiplying colors and extreme floriferousness, their ease of propagation and consequent greater cheapness, it seems to me this class of roses are likely to run the azalea a hard race for the first place as florists' Easter flowers.

The new evergreen set are even more vigorous but will not probably be in the hands of the trade before next year. Many of you may, however, wish to know what they are like. They are Wichuraianas crossed with Perle des Jardins, Meteor, American Beauty and other forcing roses. To Manda's surprise, I daresay, they retained their foliage outdoors last winter. They are most luxuriant growers, evidently hardy, and worthy of the most extended trial wherever covering plants are desired. To my mind the most beautiful are two crosses of the Perle, Gardenæflora, with beautiful yellow buds, and expanded flowers like Gardenia Fortunei, and Jersey Beauty, a single white flower expanding to three inches across, with big clusters of golden yellow stamens studded over beautiful masses of rich and shining green foliage; it will take the place of the Cherokee rose northward. Evergreen Gem is another dense grower of this set, and besides these are several as yet unnamed such as a cross of Meteor with fine, full, double, light pink flowers. The Beauty crosses had scarcely arrived at a condition for me to talk about, but I would say to florists that they should watch these roses, for I

believe they will prove to be among the most useful acquisitions for a wide section of country that we have seen in recent years, and for the class of customers who desire roses for training on walls, or covering bare ground, they should prove of great value.

Trenton, N. J. JAMES MACPHERSON.

**Cincinnati.**

STOCK IS VERY PLENTIFUL, WHILE QUALITIES AND DEMAND ARE ONLY FAIR.—A FISHING PARTY.—THE ANNUAL PICNIC.

The rush of commencements being over, florists anticipate a quiet time, and after this week summer dullness is generally looked for. Roses have been plentiful the past week, and met with fairly good demand. Carnations are too abundant and the same may be said of sweet peas.

On June 23 a party of five paid a visit to Wm. and C. C. Murphy, at Murphyville, a small German village about eight miles west of this city. It was, as Charles Jones called it, a fishing party, and their fish stories are numerous; nevertheless they report having a good time. Frank Ball caught the largest catfish, weighing nearly eight ounces, and Charles Jones nearly drowned and caught a heavy cold. The party arrived home safely late in the evening.

Considerable interest is being taken in the approaching picnic and outing of the Cincinnati Florists' Club. The sale of tickets has surpassed any previous year, and judging from present indications the fifth annual outing, which is set for July 21, at Coney Island, will be a rousing success. The committee in charge is C. J. Jones, A. C. Heckman, Wm. Murphy, F. W. Ball. H. SCHWARZ.

**HARDY CUT FERNS**

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place. BOSTON.

**John Conley & Son,**  
Manufacturers of

**TIN FOIL**

2 AND 4 DOMINICK STREET, New York.

**REED & KELLER....**

**Florists' Supplies**

122 W. 25th St., NEW YORK CITY.

**A SNAP IF YOU WANT GLASS.** Per Box

20 Boxes of 14x18 (B) Double..... \$3.40  
10 Boxes of 16x18 (B) Double..... 3.40  
44 Boxes of 16x22 (A) Double..... 4.10  
50 square feet in one box. Glass in new and in perfect condition. The entire lot for \$280. cash.

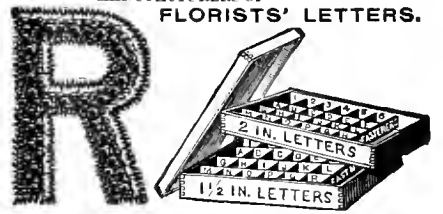
WM. F. KASTING, Buffalo N. Y.

**BRILLIANT GREEN AND BRONZE GALAX LEAVES,**

For Decorating and all Florists' Designs  
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

**Boston Florist Letter Co.**

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$5.00.  
Script Letters, \$4. Fastener with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,  
84 Hawley St., BOSTON, MASS.

**SMALL GREEN GALAX**

For use with... VIOLETS

Stiff, wiry stems. Work up beautifully. Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000.  
.....ADDRESS.....

HARLAN P. KELSEY,  
1150 Tremont Bldg., - BOSTON, MASS.

**August Rölker & Sons**  
Cape Flowers, Cycas Leaves, Florist Baskets, **SUPPLIES.**

Send for trade list; also for prices on full bulbs, azaleas, etc., imported to order. Address

52 Dey Street, NEW YORK.

**H. BAYERSDORFER & CO.**

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

H. BAYERSDORFER & CO.  
50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

**Have You Seen Our Agent?**

A Complete Catalogue for Florists. Send for One.

ELLIS & POLLWORTH  
MILWAUKEE, WIS.

**M. Rice & Co.**

Exclusive Importers and Manufacturers of....

**Florists' Supplies**

25 N. 4th Street, - PHILADELPHIA, PA.

**Black Ants...**

Easily and thoroughly exterminated by my non-poisonous and odorless powder. Results guaranteed. 1/2 & 1-lb. pkgs., \$6 and \$9 per doz., 40 per cent. disc. F. O. B. Boston.

Mention GEO. H. RANDALL  
American Florist. WELLINGTON, MASS.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. ROIGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO: D. L. Sloan, of Palo Alto, Cal.; C. H. Haines, of Denver.

The Illinois Seed Company, 236 Johnson street, Chicago, experienced a \$15,000 fire on June 24, but were fully insured.

SHIREMANSTOWN, PA.—Spring trade has been excellent. John F. Rupp reports a very good sale for the Chinese primrose seed of which he makes a specialty.

The Sioux Falls Seed Company has been incorporated in Minnesota by A. S. Sherwood, J. M. Sherwood and George Marker. The capital stock is \$100,000.

Oconomowoc, Wis.—Chas. Jackson, of the seed house of A. Jackson & Co., picked his first mess of home grown peas June 7. It was the Extra Early Alaska variety and the pods were well filled out.

Foreign Crop Conditions.

A leading English house reports, June 11, as follows:

In France beet and carrot are looking well, but the acreage is very much smaller than usual and is all contracted for. Owing to the low prices and bad trade during the past two years, the speculative farmer has been driven out of the field. Cabbage also is looking well, but the same remark also applies to this, there being very little out. Radish and lettuce have been planted out under favorable conditions and we look forward to a good yield.

In England swede turnips that are standing look well, but, owing to the drought last autumn, several lots missed and acreage is therefore much smaller than usual. Owing to the present high price of wheat, there will be some difficulty in placing out many swede turnip contracts for next season except at much higher figures.

Indianapolis.

With June the last month of the florists' business season has passed. About the usual amount of cut flower trade was done this year, but as far as the sales of bedding plants are concerned we have just ended one of the worst seasons we ever had.

Most of the florists are now busy planting new stock, none of them, however, are adding any glass this season. The young rose stock seems to be entirely free from eel worm, much to the satisfaction of rose growers to whom a few years ago this pest caused a lot of trouble.

Wm. Bertermann, who has been on the sick list for several weeks, has left for West Baden. We hope he will return much improved in health.

CONSCIENCE BUILT. W. J. R. McPherson has sold his interest in the establishment of McPherson & Fry to Andrew Kastner, and the firm name will now be Fry & Kastner.

DEPARTING. Mich. James Hogg, the well known gardener and florist, father of C. F. Hogg, the Van Dyke avenue florist, died May 19. He was born in Scotland, December 29, 1821, but had lived many years in this city.

NEW CROP!

GIANT FLOWERED

FREESIA BULBS

JUST IN FROM BERMUDA.

MAMMOTH SIZE.....	Per 100	Per 1000
SELECT SIZE.....	\$1.25	\$9.00
	1.00	7.00

Samples free on application.

VAUGHAN'S SEED STORE

HEADQUARTERS FOR "FANCY" BULB STOCK

CHICAGO: 84-86 RANDOLPH ST.

NEW YORK: 14 BARCLAY STREET.



From careful inspection by our representative in the growing fields during the past season, we believe this "BERMUDA" stock to be the purest giant flowering strain of White Freesia in the world.

TO THE TRADE!

WHEN closing December last my arrangements with the Joseph Breck & Sons Corporation to expire on May 31st, 1898, I organized the Braslan Seed Growers Co. to act as selling agents for leading seed growers of the United States and Europe.

While by my agreement then made I do control all mail addressed to that firm at Chicago, whether in my name as manager, or to Joseph Breck & Sons Corporation, yet the Braslan Seed Growers Co. have neither purchased nor taken on sale any surplus or carried-over seed stocks of the said corporation in storage, nor do we act for them in any way.

We turn over to that Corporation all such mail not of interest to us and frankly admit that our agreement applies to 1898 crops. As the Braslan Seed Growers Co. propose making their first season's deliveries of new crop seeds should we receive, which we hardly anticipate, inquiries for seed crops of 1897, 1896 or other earlier years, we will freely pass the same to Jos. Breck & Sons Corporation at Boston or their successors, as already arranged for.

The liberal patronage extended to me while interested in that corporation I gratefully acknowledge and appreciate.

I shall in the future manage the new company as selling agents for reliable seed growers of all lines of vegetable and flower seeds. Orders will be invoiced by and shipped to you direct from the producers. Your requirements when placed with us secure to you fresh new crop seeds at practically growers' contract prices.

My former customers, friends in the trade and others who may expect to require seeds of THIS SEASONS CROP on a basis of close contract prices are cordially invited to correspond with

Yours Truly,

CHARLES P. BRASLAN, For Braslan Seed Growers Co.,

OFFICES: CHICAGO: 18 N. Clark St.

SAN FRANCISCO: 419-421 Sansome St.

Mail or telegrams addressed to either office will receive prompt attention.



CHINESE PRIMROSE

...SEED...

Greatly improved and well-known to be of the very finest grown. Packets put up specially for Florists, of best single and double varieties, 400 seeds, \$1.00. Plants ready in August, at \$2.50 per 100.

Cineraria seed of large flowering dwarf varieties in choicest mixture, pkt., 25c; 6 pkts., \$1.00.

Primula obconica, pkt., 100 seeds, 25c.

Primula floribunda, fine yellow, pkt., 25c.

JOHN F. RUPP, Shiremanstown, Pa.

COLD STORAGE VALLEY ALWAYS ON HAND.

CASES of 2500 pips, extra quality, \$25.00; per 1000, \$12.00

CASES of 3000 pips, good quality, \$25.00; per 1000, \$10.00

CLUCAS & BODDINGTON CO., 501 & 503 West 13th St., NEW YORK CITY.

The Only Machine

on the market for automatically filling and sealing seed packets.

The Brown Bag-Filling Machine Co. FITCHBURG, MASS., U. S. A.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

"BEST OF ALL" TOMATO

(FOR FORCING)

"ENGLISH" MELONS

(FOR FORCING)

FLOWER SEEDS FOR FLORISTS

Catalogues on application.

WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., NEW YORK, N. Y.

BAGS COTTON SEAMLESS, BURLAPS, ETC.

SECOND HAND BAGS BOUGHT AND SOLD. CINCINNATI BAG CO. Second and Walnut Sts., CINCINNATI, O.

HOW TO GROW MUSHROOMS My 24 pp. book free to buyers or intending buyers of spawn, to others, 10 cents. New supplement on our oyster culture by J. S. GARDNER included. First imporation of the new spawn done at this port Aug 25. Please on application C. C. Watson, Judoga & Walnut Sts., Phila., Pa.

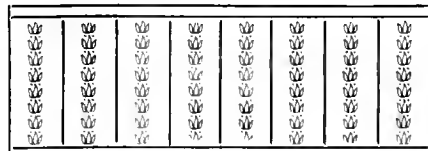
It is good business policy to mention the

...AMERICAN FLORIST

when you write to an advertiser.

# Now Ready!

The American Florist Company's



FULLY REVISED TO DATE  
WITH UPWARDS OF

**3,000**  
**NEW NAMES**

# DIRECTORY

OF



**Florists,  
Nurserymen  
And Seedsmen**

Of the United States and Canada arranged both  
by States and Post Offices and all  
names Alphabetically.

PRICE

**\$2.00**

IN FLEXIBLE LEATHER  
BINDING, \$3.00.



## AMERICAN FLORIST COMPANY

324 Dearborn Street, = CHICAGO, ILL., U. S. A.

From Radishes to Roses.

"I began as a market gardener," said a florist who makes a specialty of mignonette in a recent conversation with the *Rural New Yorker*. "Changed trade conditions caused radishes and beans, sweet corn and potatoes to be unprofitable crops and as an experiment I tried a house of violets. The first crop was not a financial success but I tried again and was more fortunate. Then I built two more small houses and have since naturally drifted into floriculture on a wider scale. My product is sold through commission men just as my vegetables were. The New York cut flower trade is the most critical and exacting in the country, and to be quoted at top prices, any flowers, roses, carnations, violets, or whatever they may be—must be graded so as to be of even quality, carefully packed, and shipped early in the day. My flowers reach the commission man by 6:30 a. m. and are usually sold by 8.

"I soon found that the flower trade was far more exacting than trucking. I had to learn, when cold, foggy weather set in, that I could not make up for the lack of sun by extra heat; I tried it and got a bad case of red spider for my pains. Violets are always favorite flowers but they are grown in such quantities that one must raise a superior article to insure any return. The single violets are first in the market in the fall and the varieties I grow are Luxonne and California, with Lady Hume Campbell for double. The Marie Louise is a good double but the Campbell does not seem so subject to disease.

"I took up mignonette and carnations because I thought that I could grow them cheaper than I could roses but I soon found that successful carnation culture demands first-class houses especially suited to their needs. Mignonette thrived in a cheaper house and I grew smilax quite successfully. Mignonette requires a good strain of seed and the lateral shoots must all be pinched off, throwing all the strength into one main spike. Most growers say that there is no money in mignonette, and certainly there is not if carelessly grown, but I am not willing to give it up. Similarly, it is considered that smilax does not pay as it once did, because it has been supplanted by climbing asparagus, but it still pays me.

"The florist's trade is now so specialized that a man can not spread over a wide range of ground. The plant trade and cut flower trade are entirely separate branches. There is quite a difference, too, between growing plants for a local retail trade and for the wholesale market. Each demands a different class of material.

"If a man were to begin a retail business in a small town he would best start with bedding plants from seed in February, March and April. Pansies could be sown in August and again in February. They always sell well. He could keep violets, sweet alyssum, forget-me-nots and similar flowers in frames. As soon as he could build a small greenhouse, heated by hot water, he could grow carnations, alyssum, forget-me-nots, smilax and stevia, and in a separate compartment, he could propagate geraniums, ageratum, coleus, heliotrope, etc., moving the overflow into hotbeds as soon as permitted by the weather.

"He would better not try roses until he could give them a separate compartment with abundant light and heat, although he might do well with some of the less exacting ones, as Bon Silene, Safran, and Siphotos. The best of the flowers which can be grown outside for cutting

are peonies, irises, lilies, gladioli, coreopsis, cornflowers, phlox and other hardy herbaceous plants.

"There is practically no school in which the trade may be learned although the Missouri Botanic Garden maintains a course in gardening and floriculture. The best plan for a beginner is to secure a position in a florist's place. He will have plenty of hard work and is very likely to get discouraged, but the knowledge he gains will be practical."

Cleveland.

BUSINESS NOW ON A SUMMER BASIS.—END OF A SATISFACTORY SEASON.—LITTLE BUILDING IN SIGHT.

Business has, after the usual few final spasms, at last reached the bed rock of summer inactivity. Nothing more is to be looked for until fall unless it be the occasional funeral order that comes to help use up the summer surplus. The last two weeks have been fairly good with most florists, there having been numerous social events, weddings and other affairs, and some of them have been quite elaborate. The past season has been fairly good according to general reports and florists are well satisfied. The prospect for additional building is at present not very bright, most florists feeling the wisdom of going slow in this matter when the supply is already ample for the demand. Glass, one of the principal items of expense, is held at such a high price as to be a deterrent to all who are not in urgent need of room, so that altogether probably not much will be done here outside of necessary repair work. A.

**PALM** Seed. FRESH ON HAND

All kinds PHOENIX SEEDS  
...of

A New Shipment of.....

**Kentia Belmoreana and Forsteriana**  
will arrive in a few weeks.

**J. L. SCHILLER** 404 EAST 34th STREET, NEW YORK CITY.

**X PANSY X SEED**

The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 2000 seeds, \$1.00; half pkt. .50. A pkt. New Forget-Me-Not, "Jewel," with every order.

**JOHN F. RUPP, Shiremanstown, Pa.**

**They Don't Miss Fire...** Who take the right course and dispose of surplus stock through the advertising pages of

**The American Florist**  
IT HAS NO RIVAL.

**Good Stock! Low Prices!**

**CANNAS** Strong plants of Alphonse Boudier, Chas. Henderson, Egan-dale, Paul Marquant, Wm. Elliott Bisson, Ser. Stewart, Flamboyant, \$4.00 per 100; \$35.00 per 1000.

**COLEUS** Crimson Verschaffeltii, Golden Queen and Golden Bedder, \$2.00 per 100; \$18.00 per 1000.

**Geraniums** Double Gen. Grant and S. A. Nutt, 2 1/2-inch pots, \$3.00 per 100; \$28.00 per 1000; extra good, 4-inch pots, \$7.00 per 100; \$65.00 per 1000.

**Cobaea Scandens**, 4-inch pots.....\$6.00 per 100.

**JOHN SCOTT,**  
KEAP STREET GREENHOUSES,  
BROOKLYN, N. Y.

**PALMS and FERNS**

The Largest Stock of PLANTS IN THE WEST

**GEO. Wittbold**  
1708 N. HALSTED ST. CHICAGO

**Orchids..**

JUST ARRIVED IN FINE SHAPE: Cattleya Warnerii, Ladia Perrinii, Laphronites Grandiflora and Coceinea, Miltonia Spectabilis and many more.

**LAGER & HURRELL, - Summit, N. J.**

**Asparagus Sprengerii**  
SEEDLINGS ALL SOLD.  
Fine Plants, \$8.00 per 100. Sample by mail 10 cents.  
American Rose Co., Washington, D. C.

**E. G. HILL & CO.,**

RICHMOND, INDIANA.  
**Cycas Revoluta Stems**

Popular sizes, 3 to 6 lbs each.....10 cts. per lb.

**FORGING BULBS**  
5% DISCOUNT

On all orders up to August 1st. Send for New Price List. Address

**H. H. BERGER & CO.,**  
220 BROADWAY, NEW YORK.  
(ESTABLISHED 1878)

**Rose Hill Nurseries**

LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Araucarias, Pandanus.....

**SIEBRECHT & SON, New Rochelle, N. Y.**  
New York Office, 409 Fifth Ave.

**Asparagus P. Nanus (true)**  
JUST THE THING FOR FERN DISHES.  
10,000 Plants. Per hundred, \$2.50, or \$20.00 per thousand.  
Cash with order from parties unknown to me.  
**LOUIS ULLRICH, Tiffin, Ohio.**  
Wholesale Grower of Cut Flowers.

**Milwaukee.**

THE FAMOUS FLOWER PARADE PROVES TO BE ARTIFICIAL.—FLORISTS ARE DISAPPOINTED.—REVIEW OF THE SPRING PLANT TRADE.—CONTRACT FOR A PARK CONSERVATORY.—NOTES AND COMMENTS.

A very great deal has been said and written in advance about the flower parade which was the feature of the carnival held here this week, but the affair proved very disappointing to florists as the display of blooms, while large, was purely of the artificial variety. Local trade was not increased by the carnival for whatever extra demand was created by the festivities was supplied by the fakirs who came up from Chicago. The show induced thousands of people to visit Milwaukee this week but it was run largely in the interest of hotels and saloons and it is safe to say that not \$100 worth of natural flowers more than the normal consumption have been sold. J. E. Hughes, of Mt. Clemons, Mich., B. F. Gregory, of Ludington, Mich., and numerous other florists came to town Wednesday to see the flower parade and viewed with amusement the display of colored tissue paper. The pageant was devised by a woman who makes it her business to interest society ladies and sell them paper flowers at \$10 a thousand, making the decorations for each turnout cost from \$20 to \$75.

All sorts of stories are told about the spring plant trade. Some dealers are sold out, others experienced fair business, while some did virtually nothing, but the season averaged pretty well. Some good geraniums are offered at 5 cents each but a few weeks ago one firm had difficulty in filling an order for 300 plants at seven cents. Flowers were very scarce last week but are very plentiful now. The brighter garden flowers, where well handled, take the shine off the indoor stock. Longiflorum lilies are still in the market.

The park commissioners have let the contract for a conservatory in Mitchell Park to cost \$24,473.

The Holton & Hunkel Company and John Arnold have each put a very attractive delivery wagon on the streets.

Ellis & Pollworth had a very elaborate decoration of plants in their store window during the carnival.

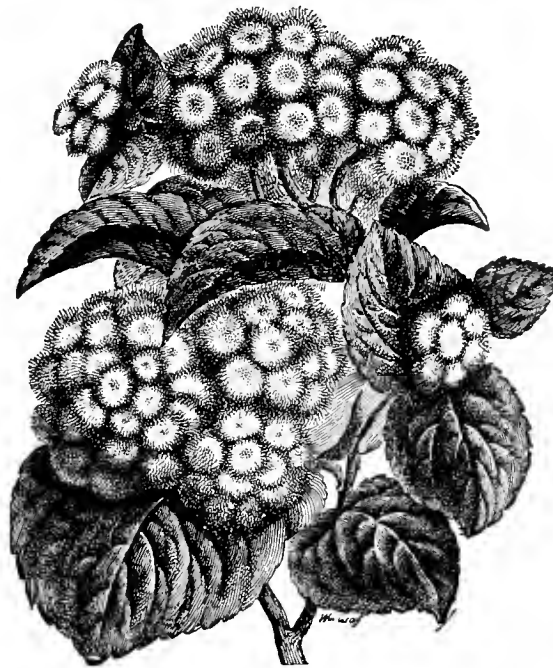
Mrs. B. F. Gregory, who has been quite ill for two weeks, is much improved. C. B. W.

**Macomb, Ill.**

About August 1 E. H. Smith will engage in rose and carnation culture here in one of the finest small establishments possible to build. The houses will be 20x100, even span, and will cost about \$2,000. They are being built with 9-inch brick walls on split rock foundations, will be heated by steam, and will have cement walks. In addition to the greenhouses there will be a workroom 10x20, an office of the same size and a brick dwelling. There is room for an addition which Mr. Smith expects to require in the spring.

BANGOR, ME.—Carl Beers, of Beers' Floral Conservatory, and Mrs. Beers sailed from Boston June 29 upon the Catalonia for a three months' tour of Europe. They will visit England, France, Italy, Austria, Germany, Holland and Belgium.

SANDUSKY, O.—A. C. Lermann has succeeded C. R. Melville as secretary of the board of park commissioners.



**NEW AGERATUM**

**Princess Pauline!**

A MOST distinct and novel variety of dwarf compact habit, rarely exceeding five inches in height, its peculiarity being that both colors, blue and white, are combined in the same flower; the body of the flower being white, while the stamens are of a light sky blue, giving the flower a pretty, variegated appearance; one of the most distinct new bedding plants that has come under our observation this season  
**\$1.25 per doz.; \$10 per 100.**

For a full line of SEASONABLE DECORATIVE and BEDDING PLANTS see our current Wholesale Catalogue.

If you want the very finest strains of CENERARIAS, CYCLAMEN, PANSY, PRIMULA, Etc. get our stock. New crops ready end of June.

**HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.**

When writing mention the American Florist.

**ASPARAGUS** 50,000 plants in 2½-inch pots, \$5.00 per 100, Xpress; 24 for \$1.50 by mail. . . .  
 Specimens for 8-inch pots, \$6 per 12.

**A. BLANC & CO. SPRENGERI.**  
 PHILADELPHIA.

**"NOVELTY"**

...THE...  
**FLORISTS' TULIP**

**"Par Excellence"**

White, shaded with beautiful rose pink. Best selling Tulip in the market last season. Bulbs ready in September. Write for prices.

INTRODUCED BY  
**Vaughan's Seed Store**  
 HEADQUARTERS FOR "FANCY" BULB STOCK.  
 CHICAGO: 84-86 Randolph St. NEW YORK: 14 Barclay Street.

**COCOS WEDDELIANA,** Each  
 1 plant 4-in. pot 15-18 inches high, 40c  
 1 plant 5-in. pot 24 inches high, 75c

**JOSEPH HEACOCK,**  
 WYNCOTE,  
 Philadelphia, Pa.

**Dutch Bulbs**  
 HYACINTHS, TULIPS, CROCUS, ETC.  
**RUDOLPH VAN TIL & CO.,**  
 Hillegom, Holland.  
 American Representative  
**L. C. BOBBINK, Rutherford, N. J.**  
 ASK FOR CATALOGUE.  
 Mention American Florist.

**BULBS** For FLORISTS.,  
 For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
 HILLEGOM, HOLLAND.

**Azaleas** THE FINEST STOCK IN THE WORLD

**Palms SANDER,**  
**Bay Trees** BRUGES, BELGIUM.  
 AGENT:  
**Araucarias A. DIMMOCK,**  
 60 Vesey St., NEW YORK.

SMILAX, from 2-inch pots \$1.50 per 100; \$13.00 per 1000.  
 HYDRANGEA (Okata), from 3-inch pots \$5.00 per 100.  
 GERANIUMS, from 2-in. pots \$2.25 per 100; \$20 per 1000.  
 " " 3-in. pots, \$4.00 per 100; \$35 per 1000.  
 " " 4-in. pots, \$6.00 per 100; \$50 per 1000.  
 Cash with the order. Send for samples.  
**FRED. BOERNER, Cape May City, N. J.**

**Fancy Leaved CALADIUMS**  
 AT 1-2 VALUE.  
 Only a limited amount of very fine 2½-inch pot plants in good assortment at from \$6.00 per 100 to \$20.00 per 100. Order at once. Address  
**F. J. ULBRICHT,** Lock Box 655.  
 ANNISTON, ALA.  
 Say: "Saw it in the FLORIST."

The Society of American Florists. DEPARTMENT OF PURCHASE.

At the Executive Committee meeting of the Society of American Florists and Ornamental Horticulturists recently held at Washington, D. C., a department called the department of purchase was created, to enable its members to avail themselves of the advantages which co-operative purchases always give. It is not intended that the society will make any purchases, directly or indirectly, or be in any way responsible for the payment for any goods or materials furnished members of the society upon any bids made for the materials required and the successful bidders must make their settlements with the individuals, firms and corporations. The names of the individuals, firms and corporations, the place of delivery and quantities of each material required for the present season have been collated and complete lists of same will be furnished to all who desire to estimate thereon upon application to the secretary. The material required includes coal, bituminous and anthracite, in several sizes; glass in various sizes and qualities; iron pipe and valves, wire nails, sash bars, flower pots, paint, oil, mastic, putty, rubber hose, bone meal, tobacco dust and stems, and a variety of other materials required in the construction and maintenance of greenhouses.

Proposals to furnish all or any part of the materials herein listed will be received until 12 o'clock, noon, July 12, 1898. The right is reserved to reject any and all bids.

EDMUND M. WOOD, } Committee. W. K. HARRIS, } W. W. COLES, }

Address all communications to W. J. Stewart, Secretary, 67 Bromfield street, Boston.

SPRINGFIELD, MASS.—William Basson, who was employed by Wass & Brown, has been recalled to the United States navy, he having been absent from the cruiser Brooklyn on indefinite shore leave.

South Park Floral Co. NEW CASTLE, IND.

We have surplus of every fine stock of 3-inch pots of Brides, Maids and Meteors

Any grower wanting some Extra Choice Stock Can get a bargain, if taken at once.

ROSES! ROSES!

Brides, Perle, Woolton, Maids, Kaiserin and Meteor \$3.00 per 100; \$25.00 per 1000. Brides, Woolton and Meteor, from 3-in. \$5.00 per 100; \$25.00 per 1000. Money order or cash with order. ROBERT F. TESSON, West Forest Park, St. Louis, Mo.

ROSES BEAUTIES, MAIDS, BRIDES, PERLES AND METEORS \$3.00 per 100; \$25.00 per 1000.

POHLMANN BROS. Morton Grove, Cook Co., Ill.

YOUNG

ROSES

PLANTS

Table with 3 columns: Rose variety, Price per 100, Price per 1000. Includes AMERICAN BEAUTIES, BRIDES, and METEOR.

TERMS CASH WITH ORDER.

J. A. BUDLONG, 37-39 Randolph Street, CHICAGO, ILL.

ROSE PLANTS

AS GOOD AS CAN BE GROWN

We have the following Rose Plants, the same stock as we have planted in our own houses, still on hand and for sale. We guarantee them to be first-class in every respect.

Table with 3 columns: Rose variety, Quantity, Price. Includes 7000 Am. Beauties, 600 Kaiserin, 600, and 4000 Bridesmaids.

FIRST COME—FIRST SERVED.

BASSETT & WASHBURN, Hinsdale, Ill.

FORCING ROSES THREE INCH.

Table with 4 columns: Rose variety (PERLE, METEOR, SUNSET, BRIDE, BRIDESMAID), Price per 100, Price per 1000.

- VIOLETS Marie Louise and California, \$3.00 per 100; \$25.00 per 1000. Chrysanthemums Finest sorts, \$3 per 100, \$25.00 per 1000. SMILAX \$2.00 per \$100. Umbrella Plants \$3.00 per 100; \$25.00 per 1000. DAHLIAS Pot-grown, \$3.00 per 100, \$25.00 per 1000. Libonia Penrhosiensis \$1.00 per 100.

For other stuff see our Spring List.

W. L. SMITH, AURORA, ILLINOIS.

FINE ROSE STOCK

Some extra fine 3-inch Perles, and some good Meteors, Maids, Brides and Beauties, 2 1/2 and 3-inch. Order sample lot of 25 or more.

W. H. GULLETT & SONS, Lincoln, Ill.

AMERICAN BEAUTY

Fine young plants, healthy and strong—2 1/2-inch pots, \$8.00 per 100; \$70.00 per 1000.

EDWIN LONSDALE, Wyndmoor, Chestnut Hill, Cash with order PHILADELPHIA, PA. Money Order Office, Station 11 Phila.

ROSES.

Table with 3 columns: Rose variety (Am. Beauties, Perle, Bridesmaid), Price per 100, Price per 1000.

MAPLEWOOD CUT FLOWER and PLANT CO. PLEASANT HILL, MO.

Memorial Rose (Rosa Wichuraiana)

Strong field-grown plants, \$50, \$75 and \$100 per 1000

SAM'L C. MOON, MORRISVILLE, Bucks Co., PA.

YOUNG ROSES

OF the 20,000 Young Roses advertised last week we have only 8625 left. They are BRIDES, MAIDS and METEORS, from 2 1/2-inch pots, in fine order. You can have them for \$3 per 100; \$25 per 1000. Will take 1,200 Perles in exchange. Also for sale—No. 16 second-hand Hitching Boiler.

THE FLORAL EXCHANGE, 614 Chestnut St., PHILADELPHIA.

FINE ROSE STOCK

FOR PLANTING, Out of 3-inch pots.

METEORS, VICTORIA KAISERIN, MAIDS, BRIDES, BELLE SIEBRECHT, PERLES AND BEAUTIES. Write for prices. Send 50c, or \$1.00 for sample lot of what you want to

GEO. A. KUHL, PEKIN, ILL.

Chrysanthemums!

New and standard varieties. Extra fine plants from 2-inch pots. Send for price list—Discount on large orders. ADDRESS...

H. WEBER & SONS, Oakland, Md.

You can do more than Pay Your Rent by Advertising your Surplus Stock in The American Florist.



# Grafted Roses

but strong vigorous stock, American Beauty, 3-inch @ \$10.00 per 100; \$80.00 per 1000. **Bride, Bridesmaid, President Carnot, Kaiserin, Meteor, La France, Perle, Mrs. P. Morgan, Wootton:** These are extra large plants in perfect condition from 3-inch pots @ \$8.00 per 100. If you want a large lot, write us for special price and samples.

American Beauty, Carnot, and Testout from 4-inch pots, in extra fine shape @ \$15.00 per 100. Bridesmaid, extra fine, 3-inch pots @ \$15 per 100; \$125.00 per 1000.

Also the following varieties, not grafted,

## ASPARAGUS SPRENGERII

From 2-inch pots, \$5.00 per 100; \$45.00 per 1000. This is extra fine stock. Strong 3-inch plants @ 10.00 per 100; \$85.00 per 1000. Write for special prices on large quantities.

## Asparagus Plumosa

Strong 2-inch plants @ \$6 per 100; \$50 per 1000. Strong 4-inch plants @ \$15 per 100; \$125 per 1000.

**Robt. Craig & Son,** Market and 49th Streets, **Philadelphia.**

# Forcing Roses

FIRST-CLASS, CLEAN, HEALTHY STOCK.

American Beauty, 2 1/2-in. per 100	3 1/2-in. per 100
Sony de Wootton, 5.00	10.00
Papa Gontier, 4.00	10.00
Pres. Carnot, 4.00	10.00
La France, 4.00	10.00
Mlle. Helena Cambier, 4.00	10.00
Kaiserin A. Victoria, 4.00	9.00
Perle des Jardins, 3.50	9.00
Brides, 3.00	8.00
Bridesmaids, 3.00	8.00
Meteors, 3.00	8.00
Clothilde Soupert, 3.00	8.00
Mosella, 3.00	8.00

SEND FOR SAMPLES.

Asparagus Sprengeri, 2-in. pots, strong	per 100, \$5.00
Asparagus Plumosa, 2 1/2-in. pots, fine stock	7.00
Boston Fern, 2 1/2-in.	6.00
Nephrolepis Exaltata, 4-in.	15.00
Ferns in assortment, 2 1/2-in.	4.00
Araucaria Excelsa, 6-in. pots, 15-18-in. high	@ \$1.50 each
Cocos Weddelliana, 3-in. pots	@ \$2.50 per doz.
Kentias, Arecas, Lantanas, etc.	large quantities in all sizes. Write for Special Prices, on sizes you want.

## VAUGHAN'S SEED STORE,

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

# ROSES GOOD THRIFTY .....STOCK

To close this stock out quick I make the following bargain offer for SPOT CASH ONLY....

100 Beauties, 2-in. @	5c
300 Beauties, 2 1/2-in. @	5c
40 Brides, 1-in. @	6c
200 Brides, 3-in. @	1c
70 Brides, 2-in. @	2c
300 Bridesmaids, 2 1/2-in. @	3c
50 Carnots, 2 1/2-in. @	1c
175 Climbing Woottons, 2 1/2-in. @	3c

This stock is in first-class, clean condition.

**W. W. COLES** Maple Hill Rose Farm KOKOMO, IND.

# Forcing Roses

BRIDE, Per 100 2 1/2-in.	3 1/2-in.
BRIDE/MAID, 2.50	4.00
METEOR, 2.50	4.00
METEOR, 2.50	4.00

White, Pink and Yellow Ramblers, same. Moonvines \$30.00; Alternantheras \$18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

# Rose Plants

OUT OF 2 1-2 INCH POTS.

AMERICAN BEAUTIES	Per 100	Per 1000
METEORS	3.00	25.00
MAIDS	3.00	25.00
PERLES	3.00	25.00

## WIETOR BROS. ROGERS PARK FLORAL CO.

Wholesale Growers of....

CUT FLOWERS ROSE PLANTS....



51 Wabash Ave.

CHICAGO

# ROSES. ROSES. ROSES.

American Beauties, Bride, Bridesmaid, Bon Silene, Caroline Testout, Kaiserin Augusta Victoria, La France, Meteor, Morgan, Perle, Souvenir de Wootton, etc., etc.

Also Clothilde Soupert, Mossella and Clara Watson, suitable for immediate planting for summer blooming in extra fine stock from 3 and 4-inch pots.

JOHN N. MAY, = Summit, New Jersey.

# CLOSING OUT PRICES! CHRYSANTHEMUM MRS. A. F. WIENOLD,

The finest of the large early whites. Extra strong plants, 2 1/2-inch pots, \$1.00 for 12; \$6.00 for 100.

ROSES Ready to shift. Not old, hard wooded stuff, but young healthy plants. Brides, Bridesmaids, Perle, Sunset and Niphotos, 2 1/2-inch pots at \$2.50 per 100. McDONALD & STEELE, Crawfordsville, Ind.

# 40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagation.

WOOTTON	LA FRANCE	AMERICAN BEAUTY	PRESIDENT CARNOT
METEOR	KAISERIN	SUNSET	BON SILENE
PERLE	GONTIER	MME HOSTE	NIPIHOTOS
BRIDESMAID	BELLE SIEBRECHT	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.



THE GREATEST AQUATIC NOVELTY OF THE CENTURY!

# Victoria Trickeri

CAN be grown in the open air without artificial heat, under the same conditions as Nymphaea Devonensis and Zanzibarensis, it grows to gigantic proportions when given ample room, but succeeds admirably in a tank of not more than six feet in diameter. We have also grown it as a pygmy in a ten-inch pot, where it flowered beautifully, the leaves with turned-up edges and all the characteristics of a fully developed plant. Plant out any time in June. For best results get a large plant. Price, \$5.00, \$7.50 and \$10.00 each, according to size.

We also have on hand fine plants of VICTORIA RANDI, \$7.50 and \$10.00 each. Also an extensive collection of hardy and tender day and night blooming Nymphaeas. Come and see our Water Garden at Riverton, N. J.

Henry A. Dreer, 714 Chestnut St. Philadelphia



WORTH MORE THAN A PASSING NOTICE



WORTH MORE THAN A PASSING NOTICE

SALABLE PLANTS IN LESS THAN A WEEK

TRUE BEYOND A DOUBT THEY ARE

- Breningsi var.
- John White var.
- Wm. Elliott var.
- Discolor Tal.
- Burbank O. F.
- Luxerand Med.

THE SIX BY MAIL FOR 40 CENTS

FOR WINTER FOLIAGE DISPLAYS, GRAND!

CLEAN, FRESH, QUICK, PROFITABLE.

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GIANT PASCAL WHITE PLUME \$2.00 per 1000. Special prices on large lots.

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Bennett, Pa.

There is something particularly suggestive in the name "Little Beauty" with which F. Breitenbaugh & Bro. have christened their fuchsia. A dwarf, compact plant, fairly covered with blooms, it is a beauty in all that the word implies. The plant was originated with them about seven years ago, it being a sport of Gracieux, imported from France and introduced by Mr. Simmons. That it is far superior to its parent many a grower, and I have spoken to several on the subject, will sustain me in my assertion. Another fuchsia equally attractive is Lord Byron, and this variety is also grown here with marked success.

What promises to attract attention in the near future is a new heliotrope, named after a Madame Brewer. It is a fine variety, looks promising, and from all appearances has come to stay. Novelties, however, by no means exhaust the stock of the Breitenbaugh brothers. As growers of roses, carnations and bulbous stock they are very successful, while their palms and decorative plants, of which they carry a large line, are not to be found fault with. Decorative work is one of their specialties. A house expressly adapted for smilax, will soon be in course of erection. HOMO.

MOSCOW, IDAHO.—Rapid progress is being made in constructing the new conservatory at the state university. The building proper is 18x30, with stone foundation, brick and glass side walls, iron rafters, wrought iron gutters, cement floor, steam heat and all the other modern devices for successful floriculture.

AURORA, ILL.—Roscoe Saunders has leased his very fine establishment to F. Smely, of Gibson City, Ill., and will take a well earned vacation from business. Mr. and Mrs. Saunders leave shortly to spend the summer in Maine.

The MODEL Extension Carnation Support



QUEENS N. Y., Feb. 16, '97. MR. THEIRON PARKER, Brooklyn, N. Y., Dear Sir: I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention. Very truly yours, W. WAARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97. MR. THEIRON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we endorse it as an up-to-date carnation support. Yours truly, DAVID DOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97. MR. THEIRON PARKER, Brooklyn, N. Y., Dear Sir: It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them I am, Yours truly, E. ASHUR.

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An Unsolicited Opinion

WHICH IS WORTHY OF YOUR CONSIDERATION.

American Journal of Health.

THE AMERICAN AUTHORITY On Matters of Sanitation and Hygiene. NEW YORK OFFICE: 100 FIFTH AVENUE. CHICAGO OFFICE: 108 1/2 W. CLAYTON STREET. SUBSCRIPTION RATES: \$3.00 PER YEAR IN U. S. & CAN. IN EUROPE.

ANSWERS TO CORRESPONDENTS For some time past a number of letters of inquiry have reached us from florists and others, requesting our opinion concerning the "Excelsior Brand" of Plant Food offered by the Walker Fertilizer Company of Clifton Springs, N. Y. The merits claimed for it by the manufacturers may be briefly set forth as follows: That the article in question is a leafy and harmless fertilizer, gives forth no odor and is soluble.

In order to arrive at a decision in the interests of those who have written us, we instituted a very complete and searching examination into all the facts. We also took the further precaution of consulting with many people who have had practical experience with the "Excelsior Brand" of Plant Food, and whose estimate is necessarily worthy of serious attention, they having been purchasers in the open market. These people could have no object in stating anything but exactly what they think. All that we have done in the line of investigation has been accomplished unknown to those in any sense concerned with the ownership or sale of the article in question.

It now only remains for us to publish the result of our investigation, and we are obliged to admit that the verdict is unanimously in support of the proprietors' claim. We are speaking here without fear or favor, and in an absolutely impartial spirit, bearing in mind solely the interests of our readers. Fairness to the article at the same time leaves us no option than to commend it. Unwilling as we are to occupy our space with matters out of the usual literary line, we cannot ignore the mass of inquiries on the subject, more especially in view of the high regard that we find this article has made for itself and its unequal value to the public. When we add to this the fact of our own independent tests having proved to our complete satisfaction that there is an article calling for the endorsement of a journal devoted to questions of hygiene, sanitation and household matters, it evidently becomes our duty to draw attention to it. The American Journal of Health has a double duty to perform in such a case, against opposition and advise its readers as to where the best of everything in ordinary use is to be found. Unvaluable and unworthy articles in every imaginable line flood the market and are simply devices to deceive the public, and so the existence of a really

meritorious article is therefore all the more important and worthy of notice. In the "Excelsior Brand" of Plant Food we have thoroughly convinced ourselves that the public has within its reach something which fully calls for their confidence, and which has not claimed any merit it does not possess.

We now take the opportunity of informing the numerous correspondents who have sought our opinion that they will best consult their own interests by making use of this article. The one thing needed to ensure satisfaction is that the rules for its use, as plainly laid down by the proprietors, be followed. These, of course, will easily be understood by all. Ample information on the subject can be gathered from the circulars and similar matter obtainable from the proprietors, and into the details of which this journal has no space to enter. To intending users of the "Excelsior Brand" of Plant Food, however, such details are of value and interest. Finally, we would say that our commendation is given without any consideration for the commercial interests of the proprietors, but entirely because the facts in the case warrant it.

VALUE OF THE EGG IN SICKNESS.

The value of egg albumen as food in certain diseased conditions is pointed out by Dr. C. E. Hoyton. "When fever is present and appetite is nil, he says, when we want an aseptic article of diet, the white of an egg, raw, serves both as food and medicine. The way to give it is to drain off the albumen from an opening about half an inch in diameter at the small end of the egg, the yolk remaining inside the shell, and a little salt to this and direct the patient to swallow it. Repeat every hour or two. In typhoid fever this mode of feeding materially helps us in carrying out an antiseptic plan of treatment. Furthermore, the albumen to a certain extent may antitoxin the toxins of the disease. Patients may at first rebel at the idea of eating a "raw" egg, but the quickness with which they give up without the yolk, proves it to be less disagreeable than they supposed, and they are very ready to take a second dose.

CONTAGIOUS DISEASES.

Contagious diseases cause a mortality among nurses larger than is usually supposed, but not so great as formerly. This is not so much the case among the trained and educated nurses as among the orders of sisters, who do not take the necessary care and exercise, and who do not always dress in a hygienic manner. The nurse must keep her clothing scrupulously clean in the care of contagious diseases, must keep away from all other persons, and must insist on a certain amount of outdoor exercise each day. In examining a throat or making an application to it, the nurse should hold her breath if the time is not too long, and she must keep a sharp lookout for a sudden cough.

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Hartford, Conn.

SUMMER SHOW OF THE HORTICULTURAL SOCIETY.—NOTES OF THE EXHIBITS.—A CHRYSANTHEMUM EXHIBIT PLANNED FOR NOVEMBER.

The grand annual summer exhibition of the Connecticut Horticultural Society, June 20 and 21, was very successful, both in point of attendance and in number and quality of exhibits. W. B. May, gardener for J. J. Goodwin, made a splendid exhibition of strawberries, noteworthy in this class being his British Queen, a late variety new to this country. He also showed some very handsome unnamed sweet peas from seed raised by the California Sweet Pea Company. Robert Patchet, gardener for the Rev. Francis Goodwin, also exhibited a large variety of strawberries, lettuce, sweet peas and cucumbers. Colonel Clayton H. Case made an exhibit of ten varieties of roses. He has upwards of sixty varieties on his grounds in West Hartford. Miss Florence Brown made an admirable display of roses. One of her choicest specimens was a Paul Neyron. Mrs. James R. R. Moore made an exhibit of roses and the daughter of Mrs. Moore, Miss Grace Moore, showed a choice collection of wild flowers. Stephen Delbar, gardener for ex-Governor Morgan G. Bulkeley, showed a collection of roses that was viewed with much interest. Mrs. W. S. Seliger made a very fine exhibit of hardy plants. The features of the display were Lonicera Sinensis and variegated Helleborus. W. E. Wallace showed fifty varieties of roses and had the largest and most varied collection in the hall. He had magnificent Ulrich Brunners and his Mrs. John Laing were exceptionally well grown. He also exhibited Margaret Dickson, white with pale flesh center and the Paul Neyron, one of the largest varieties of rose in cultivation. There were dozens of other good exhibits. A chrysanthemum was presented to each child under 16 years of age, and each one was instructed how to cultivate the plant. The society will award gold, silver and bronze medals to the children exhibiting the best results at the November show.

WARREN, O.—Alvertus Martin has purchased the O. H. Nyc place and will conduct it as a florist establishment hereafter.

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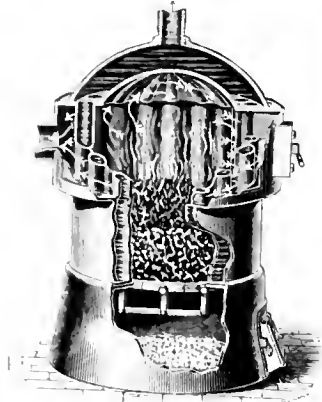
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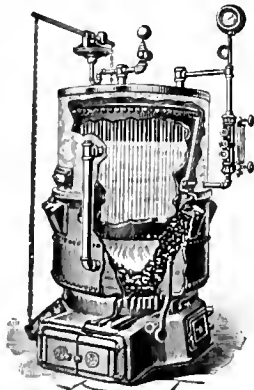
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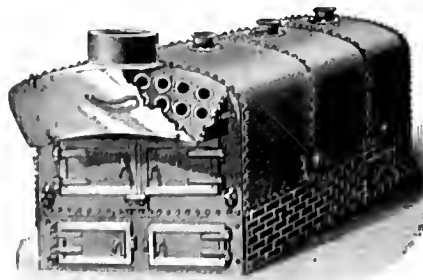


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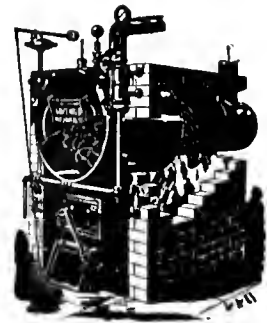
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Springfield, Mass.

The annual rose show of the Amateur Horticultural Society, June 21 and 22, was, as usual, a great success. Evangelist hall was filled with fine exhibits. Mayor Eldridge, of Chicopee had the largest display, forty-five varieties. He has over 400 bushes including eighty-six varieties, but the recent heavy rains had so damaged many of the blooms that he declined to exhibit them. Mrs. George H. Wells had the only specimen in the hall of the York and Lancaster rose. The only hardy gladioli were exhibited by Mrs. Abbie Perry, who also staged some fine pansies, spiraea, mignonette, Jacq roses and honey-suckle. Wm Goldthwait, of Longmeadow, had handsome pæonies, candytuft, sweet-william, gaillardias and three varieties of Canterbury bell. E. H. Barney and C. L. Simonds exhibited some fine lilies and Ald. L. D. Robinson had, among other flowers, some noteworthy pink and white pyrethrums. Other excellent displays were made by E. D. Stock, Mrs. J. W. Shillingford, Mrs. Charles Candrian, Rev. W. T. Hutchins, Mrs. G. D. Cooley, and several others.

The annual sweet pea show of the Hamden Horticultural Society will take place on July 20 and 21.



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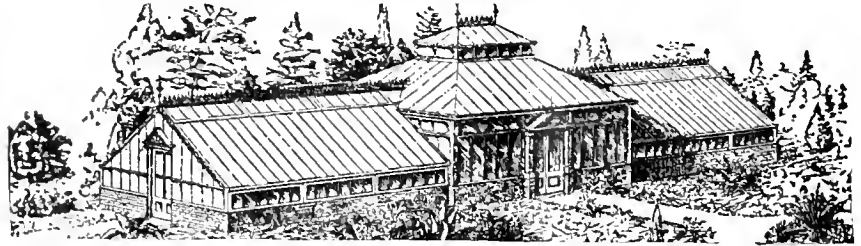
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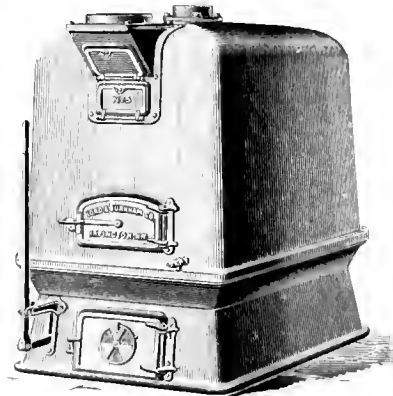
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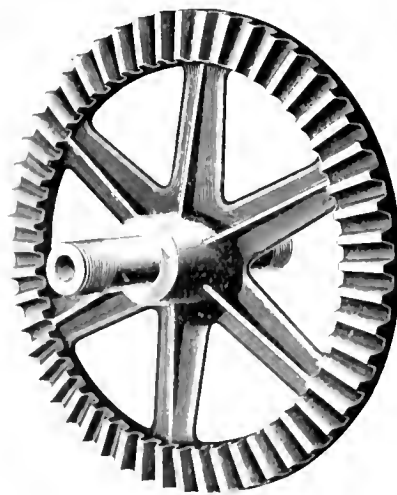
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## THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS AND  
ORNAMENTAL HORTICULTURISTS.

OFFICERS—WM. F. GUDE, Washington, D. C., president;  
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The fourteenth annual meeting will be held at Omaha,  
Neb., August 16-19, 1898.

THE AMERICAN CARNATION SOCIETY.

Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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### The American Florist Company's New Directory.

The best novel feature of the latest edition of the American Florist Company's new directory is the alphabetical list of all persons in the floral, seed and nursery trades of the United States and Canada. All names are still preserved under states and towns, as in the earlier issues of the book, and it contains the usual array of miscellaneous information invariably associated with directories and reference books. The price of the book in stiff covers is \$2.00; in flexible leather binding, \$3.00.

### The Society of American Florists.

It will always be the S. A. F. to me in spite of the useless and unornamental appendage lately tacked to the good old name, and I wish to go forward to the front pew, rise before the audience and tearfully say I am sorry for what little aid I gave in making the change. Away down in the bottom of their hearts I believe that nineteen out of twenty of the other culprits are in the same state of mind.

We have had the glittering bait of a national charter revolving before our eyes, and like the voracious pickerel, we gobbled it without stopping to see whether it was good for us or not. What are we going to do with it after we get it, if we ever do, which does not seem altogether likely. What better off shall we be? How much more good can we do the trade? How many more dollars can we gather into the treasury?

I verily believe that President Cleveland was right when he said that a simple trade organization was not entitled to the high honor of a charter granted by special act of the national congress. Now by a change of name and a pretence of being what we are not, and never will be, we are attempting to play a confidence game and get by false pretences what we can not get on our merits.

Let us stop and think of a society of ornamental horticulturists, dignified by a charter from this great government of ours, stooping to sell information to Tom, Dick and Harry as to which of its members pay their bills and which do not. It looks like a mighty small potato with a mighty big name.

Isn't it really about time, or will it not be in August, that we should admit that we have been foolish, drop all this nonsense about a national charter, cut the excrescence off the name and begin to attend to our knitting again? I believe it is.

There seems to be a widespread misunderstanding as to the possibilities of successful work and as to the limitations of the field of action in a national society of this kind. There are, of course, the chronic kickers who are bound to object at all times. These are to be ignored. The fool must be left to his folly, as he can never acquire wisdom. Aside from these, however, there are many earnest and honest men constantly suggesting, with the best intentions in the world, the most dangerous and impracticable things. They seem to entirely miss the proper point of view.

We have a large society whose members are drawn from widely separated localities. Their interests, or what they consider their interests, vary greatly. The

binding ties are very loose and the membership fluctuates constantly. The members of its governing body are scattered all over the country and can at best meet but twice a year. These members are changing from year to year, and with a change of membership of this kind in the governing body is quite likely to come a change of ideas and a wavering policy.

Even if it were wise for other reasons to undertake them, strictly commercial enterprises can not be carried out by this or any other society organized on these lines. The Florists' Hail Association has been, so far, very successful and has been of much benefit to the trade. The Florists' Mutual Fire Insurance Company we hope to see succeed as well as the other. The Florists' Protective Association, the Telegraph Delivery Association, etc.—well, we do not hear much of them. All of these organizations are, however, separate and apart from the S. A. F., and quite properly so. They are strictly commercial enterprises. To succeed they must be managed on the strictest commercial lines, and the S. A. F. from the nature of things can not do it.

The carnation, rose, chrysanthemum and dahlia societies might well be, and I hope some day will be, united with the mother society, but these others—no.

The recent action of the executive committee in establishing a so-called credit information bureau is to be roundly condemned. There was no need for haste in the matter and its organization should at least have been delayed until the society could have passed upon it.

The idea is utterly wrong from the beginning. It is a commercial enterprise pure and simple and, if to be effective, requires the most careful business management. This management can not be given by four men separated by hundreds of miles, having other business interests and entirely lacking in knowledge in this particular line of work, even though they be such able men as the existing committee are known to be. The idea of this society deliberately selling information as to the business affairs of its members is abhorrent. Finally, the fees provided are so ludicrously inadequate to any kind of efficient service that it is evident that the money contributed by other members for other purposes will have to be diverted for the purpose of supplying to others information of the business standing of the uninterested contributors.

This matter will come up for consideration at Omaha and every member should go prepared to kill it.

The co-operative purchasing scheme is a harmless thing enough which will probably travel peacefully to an early and unlamented death. The members of the

society are too widely separated. Much could undoubtedly be made out of it, however, if taken up locally by the various florists' clubs. It is small business for a society of ornamental horticulturists with a national charter, even if the charter is in the bush. W. N. RUDD.

#### Giant White Daisy.

The vase figured in the illustration is ten inches in height. The small flowers attached to the base are good specimens of the common white daisy, or marguerite, to show the great difference in the size of the flowers and length of stems. The giant variety has stems eighteen inches to two feet in length and flowers from four to four and one-half inches in circumference. A bunch of twenty-five makes quite a vase full, but they do not seem to keep so well as those of the smaller variety nor is the plant a very prolific bloomer. ROBERT KIFT.

#### Notes and Comments.

The transformation of Robert Craig & Son's place from a bower of floral beauty at Easter-time to one of leafy luxuriance at the present time is very nearly complete.

Mr. Robert Craig has come to the conclusion that the best kind of a house in which to grow *Cocos Weddeliana* is a very dark one. When crowded for room for Easter flowering plants, the cocos were put temporarily under the benches along the side of the walk, and they now are wearing a dark, rich shade of green, evidence that the partial darkness suits them.

Mr. Craig, Sr., relates that he recently saw in a lady's home one of the very best cocos of the species under consideration he has ever seen, and it retained a beautiful, rich dark green color, which he can account for in no other way than that it is growing in semi-darkness, as the place it occupies is several feet from a window, and the plant has been in the same position for several months.

This fact when generally known ought to simplify the growing of this favorite and graceful little palm, and at the same time stamp it as one of the very best plants in the whole list for home adornment. Another experiment the Messrs. Craig are putting into successful operation is the planting out on tables under glass of a number of our best known and most useful decorative plants, such as, *Kentias*, *Pandanus Veitchii*, *Livistona rotundifolia* and the celebrated Boston fern.

In comparison with plants of the same age, the *L. rotundifolia* growing in pots and those planted out, the latter were fully one hundred per cent better than the former, being broader in the leaf, yet retaining that compact appearance for which it is noted, and at the same time possessing a more thrifty appearance generally. By this method of culture they will have a large quantity that will readily wholesale the coming fall and winter at \$1 each, whereas those growing in pots will not be worth much more than 50 cents.

In a recent issue of the *Gardening World* reference is made to "a beautifully arranged and highly colored group of crotons," exhibited at the Temple Show by the well-known firm of Messrs. James Veitch & Sons, and among the varieties named are many which have proven the most satisfactory in some parts of the United States for outdoor bedding, as, *Barone's*, *James de Rothschild*, *Evansia*

*num*, *Queen Victoria*, *Hawkeri*, *Emperor Alexander III.* and *Mortii*. During recent years there has been an increased call for these gorgeously beautiful bedding plants. In addition to the varieties above named, *Dayspring*, *Irregulare*, *Rubrolineatum*, *Fasciatus* and *Aurea Maculatum* are good for bedding. The last named is more especially suitable for the edge of beds, being one of the small-leaved section, with green leaves spotted with bright yellow.

Among the newer zonal pelargoniums the *Mme. Bruant* has made a very favorable impression upon everyone who has seen it. It is quite distinct from anything in this class, the most distinct since *Souvenir de Mirande* made its appearance nine or ten years ago. The flower is white, veined and distinctly edged with a bright yet delicate shade of solferino; it is very pleasing to look upon and ought to make an excellent market variety. It appears to be a thrifty grower and a free bloomer, with trusses of large size. Whether it will succeed as a variety for outdoors remains to be proven. It is well worth a trial.

Mr. Albert M. Herr says he is trying quite largely for next winter's carnation campaign some of the latest productions in new varieties—seedlings raised in Cali-

fornia. I hope he will meet with more success than I did some years ago when experimenting along the same lines. Mr. C. Joseph Haettel sent a number of varieties for trial selected from the standpoint of the Californian and the best the California climate produced at that time, but not one among them proved to be of any value with us. Louis J. Haettel was a seedling of his, and met with some success in some sections. It was a white with deeply serrated petals and was quite fragrant. This variety, I think, was sent out by H. A. Dreer, and was also tested by the late Chas. T. Starr, and proved to be the most satisfactory, so far as I can learn, in and near Albany, N. Y.

Carnations do magnificently in California. I remember in the seventies a Mr. Murphy—I think that was his name—who brought them into San Francisco literally by the bushel from his gardens located on the bay near the Presidio. Plants in one season would make a growth on an average of not less than two feet across. California, in many parts of that favored state, has an ideal climate for the successful development of carnations, but whether the varieties produced under the very dissimilar environment to which they will be subjected in the less favored eastern states



GIANT WHITE DAISIES.



ODONTOGLOSSUM ROEZLI AND VARIETY ALBA.

remains to be proven. Many of the varieties which I tried were raised near Redondo beach, while others were produced in Piru. I hope Mr. Herr will have flowers of the California seedlings on exhibition at some of the meetings of the Florists' Club of Philadelphia next fall and winter and also at the meeting of the American Carnation Society to be held in the Quaker City next February. E. L.

#### Odontoglossums for Florists.

It has been said that *Odontoglossum crispum* is the queen of orchids. Certainly there are more plants of it grown than of any other kind, and the more one has the more one wants, chiefly because there are no two that flower alike, and indeed the same plants vary a great deal each year. It is a cool house species, one that needs very little heat as it grows just below the frost line on the Andes in Colombia. The best situation for it is in a north house such as is used for propagating in winter; one that is kept at about 50° will suit it admirably, as most of the growth is made in winter. The plant blooms in spring and early summer and the sprays are exquisite for all decorative purposes. Whether cut or used in pots, to see them arching out over a bank of *adiantum*s is to see one of the prettiest combinations possible. We have used them very successfully in this way during the past few weeks.

Another good species is *O. Rossi*, a Mexican plant which may be classed also *O. Cervantesii*, as both are very much alike. These are winter kinds, easily grown in a cool house in summer, with a little more warmth among the

cattleyas in winter. In this way we have brought around some very sick plants, making bulbs as large as hen eggs. The flowers are invaluable for boutonnières for either sex and last well when made up. *O. citrosum* is also another valuable Mexican kind for cut flowers, and it may be said that when an orchid hails from this land of sun it, in almost every case, needs abundance of light in winter to mature the growth and make it flower. Our sun is too hot in summer if given in its entire strength, but in winter is necessary in its full power. Many growers dry *O. citrosum* almost to death to induce it to bloom, and this is a mistake. Give the growth sun and air and it will flower well without material injury. There are many back walls in florists establishments that might be utilized by cultivating some of these plants wired on blocks of fern root and suspended where they can get plenty of water from the hose in summer; the labor will be small and the returns ample, as some already in the business know and can testify.

We have a great fancy for *O. grande*; it is an early fall blooming sort and never fails to cause comments from the interesting shape of the crest. It is easily cultivated, at least we find it so, for our plants have been here for about six years and are stronger than ever. This plant must never be dried up or it will suffer quickly. Another valuable class of plants that used to be grouped with this genus is the *mitonias*, one of which was figured a year ago in *M. vexillarium superbum*, and a whole chapter might be written on it alone. Another good kind figured in this issue is *M. Roezlii*, named in honor of the intrepid collector Benedict Roezl, who saw his first plants, floating down

stream on a log, in full bloom. Both the type and the white form are very beautiful, and they require a little more heat than the others, say a palm house, with plenty of moisture from the hose to keep down insects, thrips especially. Under these conditions they will bloom freely in winter.

There are many other *odontoglossums* which are good and easy to cultivate. They need lots of moisture, and if the above few kinds are taken in hand, it is safe to say others will follow. Always pot the plants when signs of new growth make their appearance, and this is when new roots are emitted and seek a firm hold in fresh, sweet compost, such as fern root and moss in equal proportions. If the plants are watered properly, the moss will grow and form a healthy rooting medium as well as an unfailing index as to the need of water. We usually begin to pot *O. crispum* in the month of October, taking the plants most advanced first. The hot days are then past and the plants take hold readily without any check such as would follow this operation earlier in the year. Of course, if an orchid of any kind gets sick, it is best to turn it out at once whatever the season, as delay will cause the loss of the few roots that remain alive. E.

#### Carnations.

Last week I wrote of the necessity of closer relations between the retailer and the grower. To be a really successful carnation grower there should also be closer relations between the grower and his plants than is usually found. The grower should know all their moods and

fancies, their likes and dislikes, their needs and their foes. If you employ a grower see to it that he can answer any questions about a certain variety at any time during the season and if you are growing them yourself see to it that you can answer these questions for yourself. The grower must come into personal contact at least once a month with each individual plant on the place, no matter whether it is a thousand plants or sixty thousand that are grown. To accomplish this during the summer means that he must do all the topping, and it also means a tired back at night; but all these things are part and parcel of carnation growing.

Such a grower can so handle his plants in the field that they will produce their heaviest crops between December 15 and January 15 and for the same dates preceding and following Easter. With heavy crops when the demand is for them there is little trouble in disposing of the cut between those dates in a satisfactory manner as it will not be large enough to make a glut and plenty to keep up a nice trade. To do this is something that no one can instruct you in, as it is solely and exclusively a matter of soil, season and culture. You must learn to know each variety and how to handle it for yourself. The main object to be worked for is to have plants with plenty of good working wood when they are ready to plant in the house. This, of course, will depend on their topping right now and through the season and will vary with varieties and the season. A variety that grows especially strong will require more topping and if we have a wet summer the topping will have to be given closer attention than in a dry one. Aside from topping, proper field culture must be given the plants and this consists in having a perfectly clean patch with loose soil between the rows and around the plants in the row, this looseness of the soil to be brought about by the liberal use of the harrow (horse or hand) and the hoe. If insects become too numerous on the outdoor plants, it is well to get rid of them; but unless they become a real menace to the health of the plants, it is better to omit remedy, as often the latter causes as much injury to the stock as the insects themselves; and if nature is left to take her own course, they are usually cleaned out before they do any serious damage.

There may be one or two instances in a hundred where the careful use of a good bone or commercial fertilizer will be of benefit if applied immediately before a rain in summer, but make sure that you know how to use it, and even then do not apply it unless the plants are not growing well enough to make good specimens by fall.

No matter whether you want to crop your carnations or have them bloom steadily all the season, if there is to be any money made out of them, they must bear plenty of flowering wood when they are planted in the fall; after they are started in the house, it is a matter of temperature and watering in order to advance or retard them. Carnations that crop have usually been looked upon with disfavor by most growers, but when we learn to handle them properly they will produce as much if not more in the dollars and cents line than those varieties that are always in bloom and never in crop.

ALBERT M. HERR.

WOODSTOCK, ONT.—The local horticultural society and florists will give a flower show on August 4 and 5.

#### Filling Benches.

How to empty and refill the benches with soil with the greatest economy of time and labor is an important question for all large growers. Ingenious operators have at various times devised methods of more or less pretensions, but it would appear that nearly all have come back to the old-fashioned hand barrow plan, plank runs being laid from the ground outside of the house to the height of the bench and along the same. The "scoop" barrow is the form generally used.

Mr. Benj. Dorrance, who is an extensive rose grower, describes his method of removing stock and soil and re-filling rose houses as follows: "Having first removed the stakes or other supports, with a pair of hedging shears I cut all plants off close to the soil, thus leaving top of benches clear for the wheelbarrows, into which the soil is shoveled by three men and wheeled out by two others. These five men empty a house 20x150 feet in about two and one-half hours. The soil being entirely removed the benches are swept clean and the hose turned on with full force, cleaning every crack and crevice.

The house is then closed tight for twenty-four hours to dry, after which a heavy coat of lime wash is given while hot. The lime wash is made by mixing with the lime when slaking, thirty pounds flower of sulphur to each bushel of fresh stone lime. As soon as the whitewash is completed we reverse the operation of taking out the soil. Two men fill the barrows, two wheeling and the third levels the soil, taking about three hours to fill a house. This is my method and my force of ten men, after the first twenty-four hours have passed, keep a continuous stream of soil going in and out until the houses are filled and planted. It should be added that in the end of each house I place a 3x6 hot-bed sash, which takes the place of sash bars, and through which we have access to the outside world without removing any sashbars or glass."

J. N. May's process is similar. Mr. May says that having the new compost close to the door of the greenhouse he can with four men fill a 100-foot house in about three hours, but usually he has five men in the gang. As this work has to be done invariably in hot weather the desire to get it done as quickly as possi-

ble is apparent. S. J. Reuter in speaking of the same subject lays stress upon the fact that he does not use his regular men for this work but hires extra laborers to do it. At E. M. Wood's Waban Rose Conservatories they have holes made at regular intervals, say eight feet in the roof and shovel the old soil directly from the benches through these openings, thus getting it out of the way immediately, where it is allowed to remain until it can be conveniently carted away, leaving the way clear for beginning work at once on cleaning, repairing and re-filling the beds. Mr. Jos. Heacock advises that a door not less than three feet three inches wide be located in each end of a rose house when building.

Walter Weisbrod, with Conrad Hess at Baltimore, states that he found great difficulty in filling benches by means of boxes carried along narrow paths. He then took to sliding them along the edge of the bench, and this went even harder until he happily thought of grease. He then procured some linseed oil, which was applied with a brush to the bottom of the box and the edge of the bench, and afterward found the work much easier. He adds that the edge of the bench should be smoothed with a plane before the oil or grease is applied.

#### Away Down East.

Florists in general probably have little acquaintance with their fellow craftsmen in that away down eastern district designated as N. B., which in correspondence is the Latin *nota bene*, or note well, but which in this instance is an abbreviated reference to New Brunswick. For the purpose of introducing that somewhat out of the way locality to favorable notice we present herewith two views of the establishment of Miss Ada M. Schleyer, of Fredericton. Miss Schleyer has 5,000 feet of glass, and, as the pictures show, her stock is in most excellent condition. A general assortment is grown and meets with a ready sale. The roses seen in the picture are Brides and Bridesmaids. New Brunswick is a province more than twice the area of the state of Massachusetts, but, according to the recently issued American Florist Company's Directory for 1898, has only an even dozen florists. Is it any wonder that they all prosper?



VIEW IN MISS A. M. SCHLEYER'S ESTABLISHMENT, FREDERICTON, N. B.

## New York.

VERY LITTLE BUSINESS BEING DONE.—EARLY CLOSING SUGGESTED.—A NEW BRAND OF LILIES.—SIEBRECHT & SONS' KENTIA FARM.—REMOVAL OF T. W. WEATHERED'S SON.—KOFFMAN'S "RECEIVING STATION." JAPANESE PÆONIES POPULAR.—A DINNER COMMITTEE.—THE ROSARY WAS SCORCHED.

Why do not the New York florists imitate those of other cities and close early these summer afternoons? The shops are deserted by customers and if the clerks were to follow their example and lock the doors and skip, it would be a most sensible move. The wholesalers could quit at 1 p. m. every day during July and August, just as well as at 6 p. m., as is the custom. Most of them recognize this fact and all that is needed is someone to prepare an agreement to that effect and the requisite signatures might be easily obtained. Very little is being done in the way of business and that is completed in the early hours of the day, after which the markets and large wholesale establishments serve merely as loafing places for the Greeks, whose ardor for flower buying and flower selling has given way, for the time being, to their propensity for throwing craps, with a reckless indifference to the size of the stakes.

Down town among the seedsmen equal dullness prevails, an occasional market gardener after Refugee beans being about the only evidence of life. A certain drummer claims to have struck a lucky find, not in the Klondyke but in Bermuda—a graveyard full of Harrisii lilies that have been growing there undisturbed for half a century and not a trace of disease to be seen. Bulbs from this stock come high; so they should, for the stock of such graveyards is very limited. This versatile drummer has not yet decided on a name for the variety. He was at first inclined to call it "The Graveyard Brand" but has decided to wait and see how his customers feel on the subject about next Eastertide, as under the circumstances, this title might have an application entirely too personal.

Siebrecht & Son are about to add another house, 30x132, to their establishment at New Rochelle. The range now comprises seventy-six houses. Kentias and arecas are grown in immense quantities, no less than forty-eight houses being devoted exclusively to them. Mr. Siebrecht says that seeds recently planted will run the number of young stock up to nearly four million. Fourteen houses are filled with ferns among which is a large quantity of *Nephrolepis cordata compacta*, which is one of the handsomest and most useful ferns in cultivation. The outdoor nursery department contains an enormous quantity of Japanese maples and conifers of the choicer sorts. The boiler house erected here last year is a model in its way. It is of stone, 45x145. Four one hundred horse-power steam boilers constitute the battery and the main steam pipe is carried to the greenhouses through an underground tunnel seven hundred feet in length.

Thos. W. Weathered's Son has removed from 141 Center street to 46 and 48 Marion street, between Spring and Prince streets, two blocks east of Broadway. This is the old location, where the firm carried on business from 1869 to 1890, but greatly improved when the street widening which is now in progress shall have been completed. The new avenue into which Marion street will be merged will be the finest in the business section



VIEW IN MISS A. M. SCHLEYER'S ESTABLISHMENT, FREDERICTON, N. B.

of New York. It will be practically an extension of Fourth avenue to the City Hall, but its name has not yet been decided upon.

The new "Receiving Station" of Koffman, the Smilax King, at 52 West Twenty-ninth street was opened with appropriate formalities on Friday, July 1. Mr. Koffman was there in person all day and received his callers with characteristic urbanity, accepted with due appreciation their good wishes and treated them with unlimited generosity, so that they departed in the frame of mind which this notable occasion justified and demanded. The opening ceremonies are to be repeated annually, regardless of the market value of smilax, adiantum and cypripediums.

A slight fire destroyed the awning and and electric sign and cracked the glass in the show window of "The Rosary" on Fifth avenue, on the night of June 28. A lighted cigar thrown from an upper window is supposed to have been the cause. Mr. J. H. Troy, manager of the establishment, is absent from the city, attending to some business in Newport. Willie Tiffany, one of the proprietors, has fine bachelor apartments above the store but is now in Cuba with Roosevelt's Rough Riders.

H. H. Berger & Co. report a gratifying business in the fine new Japanese peonies, which, with their immense brilliant flowers, are doing much to develop the reviving interest in this class of plants.

John Scott, J. W. Withers and J. I. Donlan were appointed at the June meeting of the Gardeners' Society to arrange for a dinner to take place probably about September 10, until which time the society adjourned.

## Philadelphia.

ORDERS ARE SCARCE, BUT GOOD STOCK IS EVEN SCARCER.—PROSPECTS FOR A GOOD REPRESENTATION AT OMAHA.—HUGH GRAHAM'S FOURTH OF JULY FLOATS WERE ALL RIGHT.

The lot of the scribe is a hard one now-a-days, as there is very little to write about. Everything is at a standstill, except that when an order has been welcomed the machinery of the whole place has to be set in motion to get flowers enough to fill it, for stock of good quality

is very scarce. There are a few good Kaisersins about and some fair Meteors, and these, with an occasional dozen of Mme. Jamain (they cannot be called Beauties now), are to be had provided one gets in ahead of the other fellow. Carnations are still being sent in from last season's plants and are fair in quality. The assortment has dwindled down to McGowan, Scott and a few Portias. Graham has some good Victors, although Daybreak would now be a better name for them. Sweet peas are good one day and poor the next, depending on the weather. Lavender and white varieties are much in demand for funeral work. A few asters are making their appearance and will greatly help out the assortment.

The July meeting of the Florists' Club, held last Tuesday evening, was not very well attended, quite a number of the boys being with Commodore Westcott navigating the waters of Barnegat Bay. The question for discussion at the August meeting will be "Climbing and Trailing Roses," and W. A. Manda, of South Orange, N. J., is to prepare a paper on the subject.

The Omaha convention was discussed and it is hoped to get up quite a delegation although at present the interest is rather lukewarm. The best rate so far obtained is \$56.34, which includes parlor car each way. There is still some hopes of going and returning for one fare, but it is still in prospect.

Peter Barr, of London, has been honoring this city with a visit the past week. Mr. Barr is a genial gentleman with a very varied knowledge of horticulture. He retired from active business some three years ago and now, at the age of 73, is making a trip around the world. He is hale and hearty and moves about like a man of 60. He goes to Canada from Philadelphia.

Hugh Graham's decorated carriages, four-in-hands, drags, etc., made a great display in the parade on the Fourth of July. Asparagus, pampas plumes in colors, artificial roses and fresh carnations and roses, together with gladioli, made up the assortment of flowers used. There were also a number of immortelle designs, crescents, Maltese crosses, wreaths, etc., attached to the wheels. The whole set, some twenty-five in all, were much admired.

K.

## Boston.

AN EXCELLENT SATURDAY EXHIBITION AT HORTICULTURAL HALL.—CERTIFICATES OF MERIT.—TRADE IS POOR WITH GOOD STOCK SCARCE.—NOTES AT THE HUB.

At last Saturday's exhibition in Horticultural Hall the delphiniums were strikingly beautiful. Many of the spikes showed two feet and more of solid bloom and the range of color was remarkable. The premiums went, first, to J. L. Gardner (Wm. Thatcher, gardener), Mrs. A. W. Blake (Henry Wild, gardener), and Rea Bros. A flower cluster of *Dendrobium thyrsoiflorum Hinghamensis*, shown by W. W. Lunt, attracted much attention and was recognized with a certificate of merit. Compared with the type, the individual flowers are much larger and the color is richer. C. G. Robeling was also the recipient of a certificate of merit for a fine flower of *Laelia-Cattleya Canhamiana alba*. Of herbaceous perennials fine collections were staged by W. N. Craig, Rea Bros. and Geo. L. Clarke, to whom the prizes were given in order named. Japan irises were not equal to those shown in past years. The principal exhibitors were J. L. Gardner and Miss M. S. Walker (P. Cairns, gardener). James Comley showed a number of good seedlings. J. L. Gardner was the only exhibitor of campanulas. Sweet williams from W. N. Craig, Mrs. A. W. Blake and Miss M. S. Walker were excellent. George Hollis staged a collection of thirty-six named varieties of geraniums. In the section allotted to wild flowers was a vase of *Goodyera Menziesii*, sent from Seattle, Washington, by Prof. H. H. Henshaw. Over in the further corner of the hall the mycologists, with text books in hand, were congregated around a plate on which were spread some bits of a poor little modest looking fungus labeled "Quality unknown." They spent the entire session in its contemplation.

Seashore trade is just beginning to show some signs of life. Outside of this very little is going on. Flowers of good quality are scarce. In roses about the only first class stock in evidence this week is Kaiserin Augusta Victoria. This prime summer rose is coming in now in beautiful shape and stands pre-eminently at the head of the list. Carnations are in fair supply, but small sized and not in special demand. Pink pond lilies are arriving freely but with prices away down. This flower is no longer in the fancy class.

Chas. W. Ross, of Newton, has been appointed a member of the state highway commission.

Departures from Boston for Europe last week included A. Hutson, C. E. Holbrook, W. Anderson and John Price.

Visitors this week: W. E. Chappell, Providence, R. I.; G. B. Dorr, Bar Harbor, Me.; G. W. Hilliard, Exeter, N. H.

## Chicago.

AN OVER SUPPLY OF POOR FLOWERS AND A SHORTAGE OF GOOD BLOOMS. NO REALLY FIRST CLASS ROSES.—AUGUST DRESSSEL SCARCATIONS.—PLANTING ROSES IN SOUTHERN STATES.—COCKSCOMB AND GERANIUMS.—PERSONAL MENTION.

There has been very little change in trade during the past week, the market continuing overstocked with all seasonal flowers except roses. Good blooms of any kind are very scarce. Karsins and Metes are being the only roses in the market that retain their usual color. American Beauties are faded the worst of all, the outside petals being about the color of Bridesmaids.

The first meeting of the Florists'

Club will be made tomorrow, July 10, to Henry Hilmer's place at Blue Island. The train will leave the Illinois Central Station at the foot of Randolph street at 12:45 p. m.

A. Lloyd Vaughan, of Vaughan, McKellar & Winterson, and Miss Ida Dunham were married June 29.

Ed. Winterson and C. S. Stewart started Tuesday on a cycling trip through the northwest. They expect to be gone about six or eight weeks.

C. L. Washburn and family left Tuesday on a trip to Colorado.

O. P. Bassett returned to the city Tuesday from Delavan Lake, Wisconsin, where he is spending the summer.

August Dressel has achieved remarkable success with carnations this season. His plants were good in the fall, came in flower early and bloomed continuously all winter. On July 5, there were only one or two varieties out of about a dozen in cultivation that showed any signs of exhaustion after their long season of forcing. Scott, Albertini and Daybreak are as strong and vigorous now as they have been at any time this season and show every indication of being able to endure the heat and produce a good crop of flowers until time for replanting. The color of the flowers, especially of Daybreak, is phenomenally good for carnations grown under glass at this season of the year. The plants are grown in heavy clay loam; the houses are well ventilated day and night during the hot weather, but no shading has been used. Mr. Dressel has this season made a departure from the customary methods of growing roses as he has taken the center benches out of all his rose houses and in their stead has made borders raised about twenty-six inches above the walks. The bottom of each border is filled with about twenty inches of stable manure, which, after being well beaten down, is allowed to stand a few days before it is covered with about six inches of soil in which the roses are planted. Mr. Dressel gets all the manure he wants delivered free at his greenhouses and it is cheaper for him to fill his borders with it than it would be to fill them with soil.

J. Algots, gardener for Mrs. Geo. M. Pullman, has in front of their conservatory *Celosia cristata* and Mrs. Parker geranium. The combination of the dark red cockscomb with the light colored foliage of the geranium is very pleasing. Mr. Algots plants the celosia about the 25th of February and grows it in boxes and pots until time to plant out, which is done when he does the general bedding of geraniums and other plants. This year they were planted May 26.

## St. Louis.

TRADE IS DULL.—THE PICNIC COMMITTEE'S PLANS.—FLOWER SHOW MATTERS IN STATE GEO.—VISIT TO OLD ORCHARD, THE HOME OF THE PALMS AND FERNS.—PLANT MEN PLAN BUILDINGS.

Summer quiet is fast settling upon business, and one hears more talk of getting away from town, going to the convention, bowling, picnic, and other kindred topics, than of business. Trade is slow and has been so during the past two weeks. Stock is in fair quantity but poor quality. Asters are the latest blooms that have appeared in the market. They have been coming in quite freely for the past ten days and are selling at from 1 to 2 cents. Very little cut stock is shown in the retailers' windows, they are mostly arranged with plants, the Boston fern

showing to good advantage in all of them.

The picnic committee held a meeting during the week and decided to hold the annual outing on July 20. A programme of events has been arranged and will probably include a shooting contest for the morning. Arrangements have been made for a special train over the Air Line and a good time is promised all who can attend. The announcement and programme is in the hands of the printer and will be mailed shortly, giving everything that the committee wish to say in regard to the event.

Flower show matters are rather quiet, the chairman of the finance committee reporting some increase in the subscriptions to the special prize fund, but very little more is expected until fall, when canvassing will be resumed with vigor, and it is expected to easily put the amount over \$2,000. So far about fifteen persons have signified their intention of going to Omaha; it is expected, however, that this number will be considerably increased as the time for departure approaches.

A very pleasant morning was spent by your correspondent last week visiting the greenhouses at Old Orchard, Mo., that are conducted by E. H. Michel. The place has undergone quite a change in character of stock grown since passing under its present management, as green stock is now grown to the exclusion of flowering plants, and a fine collection of palms and ferns in commercial sizes has been assembled. *Latania*, *Kentias* and *arcas* predominate among the palms, while a specialty has been made of the *nephrolepis* among the ferns. *Bostoniensis*, *exaltata* and *cordata compacta* are the main varieties; handsome specimens of them can be seen in from 12-inch pans down. A large lot of *Bostoniensis* are being worked into 6 and 8-inch pans for fall trade and should prove profitable. *Aspidistras* are also grown in quantity, an importation of 10,000 leaves having been received and is starting to make its growth. Judging by the number of plants of salable *aspidistras* that are labeled sold, there will be very little of this season's stock on hand in the fall. Some minor changes are being made in the heating system, which, when finished, will make the houses an ideal home for this class of stock.

Carl Beyer, of Grand avenue and Gra-vois road, is building two new greenhouses. His specialty is plant trade, both Easter and Market plants. It is also reported that Gus Egging expects to put up two additional houses before the season commences. R. F. T.

NEWPORT, R. I.—A large number of the gardeners and florists of Newport attended the funeral of John Milne on Thursday, June 30. The Newport Horticultural Society was represented by James McLeish, Jr., Jas. G. Kyle and Harry Wesley, as pall bearers. There were many fine floral tributes. Mr. Milne was for many years head gardener in charge of the estate of Mrs. F. O. French.

PATERSON, N. J.—The Paterson Florists' Club held a spirited meeting on June 22 and it was voted to call a special meeting of all the local florists for Tuesday evening, July 5, at which time a protest against farmer competition on market days and a petition for some form of protection against their methods will be presented to the Board of Aldermen.

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MRS. H. McCALL TRAVIS, of California, who managed Milwaukee's recent tissue paper flower parade, is preparing a similar, artificial Floral Fiesta for the Omaha Exposition.

THE National Florist's Board of Trade has just promulgated its June information and credit list which contains 1572 names, 377 more than appeared in the January issue. There are 562 changes of rating; forty names were dropped.

ACCORDING to the *Gardeners' Chronicle* one English grower sent to market 1,820,000 blooms of the double white narcissus in three weeks. One day's shipment was 248,256, weighing nearly three tons. How a cut of that extent here would make the Greeks smile.

### Hydrangeas After Flowering.

ED. AM. FLORIST:—You will greatly oblige by kindly stating the proper way to treat hydrangeas in pots after flowering. K.

They should be cut back to within two or three inches of the previous year's wood, shifted into pots a size larger, removing a portion of the old soil in the operation, and plunged in an open position outdoors when they have started into growth, housing the plants again in September or early in October.

GROWER.

### Baltimore.

MARYLAND HAS A TOUCH OF SUMMER WITH THE THERMOMETER BOILING OVER AND NO RAIN.—BUSINESS GOES DOWN AS THE MERCURY GOES UP.—PLANTING IS PROGRESSING.

Another rain has alleviated the drought, but carnations and outside plants generally will need more than a temporary help if they are to be in condition to fill the treasuries of the florists next winter.

The man who is prepared to water his planted out stock is to be envied this season, for the heat has already broken the records of the weather bureau by getting up to 104° last Saturday. It may be imagined what condition unwatered plants are in when there has only been two showers in six weeks, and then only enough to moisten the top of the earth. Well, the weeds don't grow, and no one can say there was not enough clear weather to do his glazing and repairing, so we may as well make the best of it.

There is beginning to be a shortness of some things apparent in the cut flower market and the only thing that prevents it developing into a famine is the shortness that is apparent in the demand as well. First-class stock is becoming harder and harder to secure, owing in great measure, no doubt, to the number who are replanting their houses; still the

stifling heat is responsible for a good deal of the small product that some green-houses are putting forth.

Planting is going merrily along and from present indications there will be abundant material for the usual chrysanthemum glut in the fall. MACK.

### Asters and California Violets.

ED. AM. FLORIST:—You will oblige by stating to what extent asters under glass require shade; also, whether it is proper to remove the runners of California violets from now on? N. P.

It is a decided mistake to shade glass under which asters are growing, for to give shade to these sun-loving plants is to defeat one of the main objects for which they are planted inside green-houses, namely, to hasten the crop for cutting. Give them full sunlight, taking care not to allow them to suffer for the want of water, nor yet to give them more than is absolutely necessary, for that again would have a tendency to defer the semi-ripening process which the plant should go through under the artificial treatment to which they are subjected in order to gain time in their flowering. Another reason for growing them under glass is to circumvent the ravages of the black beetle, which is the bane of aster growers in many parts of the country, but in the words of Rudyard Kipling, that is another story.

Respecting the removal of runners from the California violet, it is always better to take them off, for in that way the energy of the plant is concentrated in the crown, from which we expect to gather the flowers next winter. E. D. L.

### Cut Flower Price Lists Received.

Wm. F. Kasting, Buffalo; Ellis & Poll-worth, Milwaukee; Bassett & Washburn, Chicago.

### Greenhouse Building.

Akron, O.—Bolanz Bros., three commercial houses.

Louisville, Ky.—Jacob Schultz, two greenhouses, 32x152 and 12x140. J. E. Marret, five commercial houses. Geo. Schultz, one house 20x104. Joseph Coenen & Co., three commercial houses. Chas. Reimers, one rose house.

Bay Side, N. Y.—Wm. Bell, two carnation houses.

Providence, R. I.—Wm. F. Miller, one greenhouse.

New Rochelle, N. Y.—Siebrecht & Son, palm house 30x132.

So. Royalston, Mass.—Chas. Stewart, one forcing house.

Glastonbury, Conn.—J. R. Morgan & Son, one large commercial house.

Ottawa, Ont.—Graham Bros., rose house 21x125, carnation house 25x125, violet house 10x125, smilax house 13x75.

New Castle, Pa.—W. T. & F. P. Butz, two rose houses, each 20x125.

Sharon, Pa.—M. I. O'Brien, 5,000 feet of glass.

St. Louis, Mo.—Carl Beyer, two commercial houses. Gus Eggling, two houses.

St. Joseph, Mo.—Conservatory in Krug Park, 34x76.

### The Planting of Cemetery Lots.

Cemetery planting, when attempts are made to follow so far as possible the wishes of the individual lot owners and at the same time not violate the general

plan of the cemetery, is an exceedingly difficult matter and is nearly always a failure, artistically at least. The difficulties are so great that most cemeteries have given it up as an impossibility and allowed the lot owner to practically go as he pleases, subject only to a few general rules. Some few have taken the matter entirely out of the hands of the lot owners and allow nothing except with a view to general effect and without regard to its relation to individual lots. The former method results in a crazy patchwork effect, while the latter is too apt to estrange the lot owner and destroy his active interest, removing any sense of personal responsibility on his part.

The American cemetery superintendents as a rule are extremely well posted and intelligent men, and without exception ready and willing at all times to give the lot owner contemplating improvements, the benefit of their knowledge and experience, and every one of them are anxious to have their cemeteries as a whole and each individual lot in the best possible condition. The ideal method of handling this perplexing question would be by friendly consultations between the lot owner and superintendent and in avoiding subjects which would be out of place, selecting only such as would enhance the general beauty of the grounds as well as each particular lot. There are some few lot owners in every cemetery who will do this, but they are in a small minority. The great majority fail to recognize their own absolute lack of knowledge, and, ignore the fact that a lifetime study of this class of work by an intelligent man entitles his opinion to careful consideration.

It may be said that by the establishment of rules the ignorant and obstinate lot owner may be forced to consult with and be guided by the superintendent. Unfortunately the courts do not look with favor on such rules. They fail to take into account the community of interests that exist in a cemetery, and that an unsightly piece of planting in one lot is as damaging to the adjoining lot as though it were planted on the latter. Their tendency in decisions, nearly always, is to guard jealously what they are pleased to term the property rights of a lot owner, and they will not uphold a rule which is not general in its effect. For instance, a rule prohibiting the planting of elm trees anywhere in a cemetery would be upheld, while a rule prohibiting their planting, except where the cemetery authorities consider advisable, would, if tested, probably not hold, the idea being that if one lot owner is allowed to do a certain thing, all must be given equal liberty.

A false sentiment is often responsible for exceedingly bad planting. The fact that a deceased friend had an especial admiration for some variety of tree or shrub or flower will cause a lot owner to insist on planting it in quantity in the most unsuitable locations. Any protest on the part of the superintendent will cause him to be considered a hard hearted monster and bring forth as a response, "I have bought and paid for the lot and shall do as I please." The outside gardener is also responsible for much of the bad work done, sometimes through ignorance or carelessness, but more frequently, through deliberate disregard of everything except his wish to dispose of a quantity of his plants at a good price. Many who have fairly well-planned and well kept residence grounds, and hence feel themselves perfectly competent to superintend their own cemetery planting, fail miserably, through a lack of appreciation

of the different conditions. The average cemetery lot is not over eighteen feet square, probably of a considerably less area, and this small plot has no fence and no background against which to mass groups. All planting is viewed from every direction instead of from one or two as in a majority of the residence lots.

The owner generally visits the place but a few times in a season, hence the care devolves upon the cemetery management, who are unable to give the minute attention to little things and the daily inspection and care which are naturally given on his home grounds, except at an expense entirely beyond the ability or inclination of the lot owner to pay. The cemetery lot has no protection from buildings and fences. Trellises, stakes and the like, as they soon decay and are not repaired or replaced by the average lot owner, are tabooed. These conditions, their lack of space, lack of background—lack of protection and, to a certain extent, lack of care, inability to use trellises and stakes, and more than all else, regard for the general appearance of the grounds and a decent respect for the rights of adjoining lot owners—prohibit the use of a large proportion of the plants, shrubs and trees which are so beautiful under other and appropriate conditions.

The fortunate owner of a larger plot has a somewhat wider range for choice, but it is still limited. The most common mistake made is in planting too many things; next, in planting those which reach too great a size; then in planting those unsuited to the conditions of soil, sunshine or shade and moisture, careless or improper preparation of the ground and slovenly execution of the work, poor grouping and imperfect color combinations where flowers are used. W. N. R.

NEWS NOTES.

WEST CHESTER, PA.—A very pretty flower show was held here on June 25 at the summer residence of Mr. S. R. Shipley.

NEWARK, N. J.—A stray horse lunched upon the rare plants in the conservatory of J. Lawrence Kearney, Perth Amboy, June 12.

MILWAUKEE, WIS.—W. R. English has opened a flower store in the Plankinton block and makes a fine display of cut flowers.

NEWBURGH, N. H.—Henry Carter's cousin, James E. Orton, is one of the gunners on the Oregon, who helped sink Cervera's fleet.

MARGUETTE, MICH.—One of John Elliott's greenhouses was burned July 2. The structure was insured and will be rebuilt without delay.

OSCONOWOC, WIS.—Mrs. H. C. Bucheler's greenhouses, which contain 10,000 feet of glass were considerably damaged by the recent severe hail storm.

HAMILTON, ONT.—The three buildings of S. P. Foster & Co., manufacturers of flower pots, were destroyed by fire June 7. Loss, \$1000; insurance, \$2100.

MENSTON, OHIO.—C. Merkel & Son have enjoyed an excellent spring trade and are, just now, having quite a run on sweet peas, cutting 7000 every other day.

VINCENNES, IND.—The local florists will cooperate with the Presbyterian church in giving a large chrysanthemum show in October. There will be a premium list.

CHAMPAIGN, ILLS.—Mr. Swartz, proprietor of Crystal Lake Park, offers to donate the ground to any responsible party who will embark in the florist business.

HARVARD, ILLS.—Charles Faust, who has spent a life time in floriculture, makes entomology his hobby and his collection of insects is only second in interest to his well ordered greenhouses.

DUNKIRK, N. Y.—Wright Brothers, of the Dunkirk Seed Company, have purchased the large three-story Koch building on Second street and will rent it for the occupancy of their firm.

SPRINGFIELD, MASS.—The Chas. R. Miller Co. has changed its name to the Chappell-Miller Co. Mr. Chappell was formerly connected with this establishment, and now renews his interest.

GALESBURG, ILLS.—Gesler & Robbins, 319 East Main street, have dissolved partnership, Miss Jennie M. Robbins retiring. E. R. Gesler will continue the business along the lines previously followed.

PEORIA, ILLS.—O. B. Galusha died quite suddenly June 15, aged 78. Mr. Galusha was a native of Vermont but came to Illinois forty-five years ago. He was a member of the first board of trustees of the University of Illinois and was for many years secretary of the Illinois State Horticultural Society. Mrs. Galusha, also aged 78, and one daughter, Mrs. W. H. Smith, 1910 Knoxville ave., Peoria, survive him.

PROVIDENCE, R. I.—The June exhibition of the Rhode Island Horticultural Society, which was held on Thursday, the 23rd inst., was pronounced to be the best that this society has ever given. It was free to the public and the attendance was very large. Strawberries were unusually good and this was also true of the roses and other displays. Col. William Goddard, A. Powell, gardener, contributed a grand collection of specimen blooming plants. Sam W. Lewis was also a large exhibitor of decorative plants and herbaceous cut flowers. N. D. Pierce, Jr., W. T. Edmund and J. H. Palmer showed some fine carnations. Roger William Park made an interesting display of single roses.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1906 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED By young man where he can learn rose growing thoroughly; two years in the trade; good reference; address A. B., care American Florist.

SITUATION WANTED As working foreman or otherwise by good rose grower, also carnations, tulips, etc.; age 28; wages not less than \$5. GEO. SPENCER, Gen'l Delivery, Detroit, Mich.

SITUATION WANTED By a practical landscape gardener and florist, understands tropical plants and greenhouse work, have 17 years' experience with A. I. reference, competent to take charge of gentleman's place. Address A. BASS, 310 Michigan, Chicago.

WANTED Good man to construct two greenhouses about 8x100 ft. Address D. B., care American Florist.

WANTED A water-back for large size Dayne boiler. Address, giving size, how long in use and lowest cash price. W. L. SMITH, Aurora, Ill.

WANTED AT ONCE An all round good florist; German preferred, \$20 per month and board, steady place the year round. O. R. DEMMELE, 45 Jefferson St., El Estero, Cal., Wis.

WANTED AT ONCE—Young florist, single, German preferred; to work with boss in range of 12,000 ft. of glass; wages \$15 per month and board. Address PAUL LIEBSCHE, Batavia, N. Y.

WANTED AT ONCE—An all round experienced gardener for commercial place; must understand the culture of palms and ferns. Young and single man preferred; for information address: LOUIS G. PFUNDER, 427 Washington St., Portland, Ore.

WANTED AT ONCE—A good gardener and florist; must be single; wages \$20 per month with board and room; none but steady, reliable man need apply; state nationality. Address PUGET SOUND NURSERY AND SEED CO., No. 1123 Second Ave., Seattle, Wash.

WANTED—Man, married or single, with general knowledge of horticulture, to work on an agricultural experiment station; wages \$40.00; to advance to \$50.00 to the right man; orchard, greenhouse, garden; new country, fine climate. Address J. A. BALMER, Pullman, Washington.

TO RENT—Well-established greenhouse to responsible party; particulars E. FRANKE, 410 Milwaukee Ave., Chicago.

FOR SALE—Well-paying retail florist business, store and greenhouses. H. N. BRUNS, 650 W. Van Buren St., Chicago.

FOR SALE CHEAP—Only greenhouse in town of 400 in Southern Michigan. Good reason for selling. Address C. H. PICK, Hudson, Mich.

FOR SALE—Four greenhouses, nearly new. Splendid retail stand in residence district on paved street leading to cemetery. Easy terms. Must retire on account of health. A. CLAUS, 301 N. 4th St., Springfield, Ill.

FOR SALE—At a good discount, a lot of 4-inch, cast iron pipe and also double strength glass, ranging in size from 8x10 to 12x14; also good boiler capable of heating 5,000 feet of 4-inch pipe. DANIEL BRANCH, 3800 Grand Blvd., Chicago.

FOR SALE OR LEASE—A first-class nursery, located near Frankford, Philadelphia, comprising 10 hot houses, 2 1/2 story brick dwelling, stable, horse, wagon and all necessary implements. Lot 13x12. Must be sold owing to death of owner. For particulars call or address 185 Bucklus St., between Kensington and Frankford Aves.

CHICAGO LOTS FOR SALE!

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot, sewer and water. Suitable for greenhouse purposes. JAMES ROOD, JR., Tel. Main 3868, Room 8, 154 Lake St., Chicago.

FOR SALE.

The largest greenhouse plant in northern Kansas, on the St. Joseph & Grand Island R. R., at Marysville, Kan. I offer my greenhouse and ten acres of land now enjoying a fine and growing patronage for cut flowers, plants and vegetable gardening; commodious dwelling house on the premises; living water, and all improvements and buildings quite new. A rare chance for an established business. Write for further information to HANS SCHMALZL, Marysville, Kan.

FOR SALE!

The largest greenhouse plant in Texas. As we have decided to devote our whole attention to our seed business, we offer our greenhouses and 10 acres of land for sale. Have 15,000 square feet of glass, all perfectly new and built with all modern improvements. Will sell land, greenhouses and stock, or greenhouses and stock and real land. We have the largest trade in plants and cut flowers in Texas. Purchaser will step into a first-class established business. This is a chance that is seldom offered. Write for particulars if you mean business to TEXAS SEED & FLORAL CO., Dallas, Texas.

GREENHOUSES AT AUCTION!  
GERMANTOWN, PHILADELPHIA.

Will sell July 13th, one o'clock, 7 houses of Mr. J. W. YOUNG, Wayne Ave., near Upsal, 14,000 sq. ft. of glass, 10x12 and 10x16, mostly double, 1700 feet, 4-inch, cast iron pipe; 700 feet 2-inch, 3500 feet 1 1/2 wrought iron pipe. 20 horse-power locomotive boiler and stack, 12 horse-power return tubular boiler and stack. 25 feet coil pipe in good condition.

Now Ready! The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price \$2.00. In Flexible Leather Binding, \$3.00. Fully revised to date with upwards of 3,000 New Names American Florist Company, 321 Dearborn St., CHICAGO, ILL.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.



# Going, Going, Gone!

and it's your own fault if you don't get the bargains. Auction Sales of Plants every Tuesday, Thursday and Saturday at 9 A. M. at.....

## MCCARTHY & CO.'S

84 Hawley Street, BOSTON, MASS.

If you want to buy, send for Catalogues. If you want to sell, write for terms.

### IT PAYS!

## Your Spring Plant Trade

will come easier, and be more profitable if solicited in the nice way you can do such things by means of

### LONG'S

## FLORAL BLOTTERS

Samples for 20 ets. in stamps.

**DAN'L B. LONG, Publisher**  
BUFFALO.

## H. BAYERSDORFER & CO.

Cycas Wreaths, Moss Wreaths, Ferneries and Jardinieres, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

**H. BAYERSDORFER & CO.**  
50, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

## M. Rice & Co.

Exclusive Importers and Manufacturers of....

### Florists' Supplies

25 N. 4th Street, - PHILADELPHIA, PA.

## HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Roping, Xmas Trees; everything in the green line always in stock at

**H. E. HARTFORD'S,** 18 Chapman Place, BOSTON.

## John Conley & Son,

Manufacturers of

## TIN FOIL

2 AND 4 DOMINICK STREET, New York.

BRILLIANT GREEN AND BRONZE

## GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

**MAIL** For Insurance against damage by hail, Address

JOHN G. ESLER Sec'y, F. H. A. Saddle River, N. J.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC. TO N. STEFFENS AND STEFFENS BROS.

MANUFACTURER OF

**FLORISTS' WIRE DESIGNS & SUPPLIES**

335 EAST 21ST ST. NEW YORK CITY.

## Wholesale Flower Markets

CINCINNATI, July 7.

Roses, Beauties, select.....	15 00
" " medium.....	8.00@10.00
" Brides, Bridesmaids.....	2.00@ 3.00
" Meteors.....	3.00@ 4.00
" Perles.....	2.00@ 3.00
Carnations.....	75
" fancy.....	1.00
Sweet peas.....	.15@ .25
Gladstoll.....	3.00
Smilax.....	10.00@12.50
Adiantum.....	1.00
Asparagus.....	50.00

ST. LOUIS, July 7.

Roses, Beauties.....	2.00@20.00
" Meteors.....	2.00@ 3.00
" Brides, Bridesmaids.....	2.00@ 5.00
" Perles.....	3.00@ 3.00
" Kaiserins.....	2.00@ 5.00
Carnations.....	.75@ 1.00
Violets, California.....	.35
" double.....	.35
Lily of the valley.....	2.00@ 3.00
Harriett.....	6.00
Sweet peas per 1000.....	.15@ .20
Callas.....	5.00@ 6.00
Smilax.....	15.00

MILWAUKEE, July 7.

Roses, Beauties.....	5.00@20.00
" Brides, Bridesmaids.....	2.00@ 4.00
" Perles.....	2.00@ 3.00
" Meteors.....	2.00@ 4.00
Carnations.....	.50@ .75
Lily of the Valley.....	2.00@ 3.00
Sweet peas.....	.10
Gladstoll.....	4.00
Marguerites.....	.25
Smilax.....	10.00@12.50
Adiantum.....	.50@ 1.00
Asparagus.....	50.00

BUFFALO, July 7.

Roses, Beauties.....	3.00@25.00
" Brides, Bridesmaids.....	2.00@ 6.00
" Meteors.....	2.00@ 5.00
" Perles, Niphotos.....	2.00@ 3.00
" Kaiserins.....	2.00@ 5.00
Carnations, white and colored.....	.75@ 1.00
" fancy.....	1.00@ 2.00
Lily of the valley.....	75@ 1.00
Sweet peas per dozen bunches.....	.25@ .35
Smilax.....	12.50@15.00
Adiantum.....	1.00@ 1.25
Asparagus.....	50.00@75.00

LOUISVILLE, July 7.

Roses, Beauties per dozen.....	1.00@2.00
" Brides, Bridesmaids.....	2.00@ 3.00
" Meteors.....	2.00@ 3.00
" Kaiserins.....	2.00@ 1.00
" Perles.....	2.00@ 2.50
Carnations, fancy.....	2.00@ 3.00
" common.....	1.00@ 2.00
Lily of the Valley.....	.50@ 2.50
Callas, per dozen.....	.75@ 1.00
Sweet peas.....	.15@ .20
Mignonnites.....	.75
Marguerites.....	.50
Smilax, per dozen.....	1.25@ 2.00
Adiantum.....	.75
Asparagus, per string.....	.60

GIVE US A TRIAL. WE CAN PLEASE YOU.



ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST....

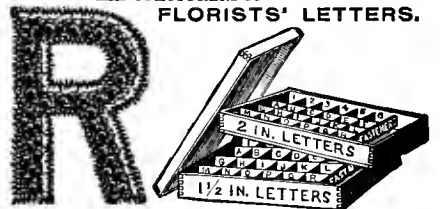
495 Washington St., Buffalo, N. Y.

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## Boston Florist Letter Co.

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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters, \$1. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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COMPLETE LINE OF SUPPLIES

WIRE WORK

WE MAKE

IMPORTERS OF

BULBS

PHONE 1273

BOX 75

ALWAYS ON HAND FINE STOCK CUT FLOWERS

ELLIS & POLLWORTHY MILWAUKEE WIS.

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For use with... VIOLETS

Stiff, wiry stems. Work up beautifully. Are all the rage.

Box of 5000, \$5.00. Less quantity at \$1.25 per 1000. ADDRESS....

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ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the.....

## "Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

EDITORS OF THE "H. A." Chilwell Nurseries, - Notts, England.

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Application Blanks and Prospectus Ready....

Write now. Delays are dangerous.

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**E. C. AMLING**  
**Wholesale Cut Flowers**  
 51 Wabash Avenue,  
 W. S. HEFFRON, Mgr. ....CHICAGO.

**A. L. RANDALL**  
**Wholesale Florist**  
 Don't Forget that we are at 4 Wash-  
 ington St., Chicago.  
 Write for special quotations on large orders.

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
**WHOLESALE**  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

**A. G. PRINCE & CO.**  
**Wholesale Cut Flowers**  
 AND FLORISTS' SUPPLIES.  
 Agents for the Hinsdale Rose Co. Special attention  
 paid to shipping orders.  
 88 & 90 Wabash Avenue,  
 Telephone Main 3208. CHICAGO.

It is not much trouble to mention the  
 AMERICAN FLORIST when corresponding  
 with an advertiser.

**S. B. WINTER,**  
 (Successor to WINTER & GLOVER.)  
 21 Randolph St, Chicago.  
**HIGH**  
**GRADE CUT FLOWERS,**  
 PACKED RIGHT,  
 so they will reach you in just as good condition  
 as they reach us.  
**WIRE DESIGNS: A Full Line.** Write us for  
 our illustrated Catalogue.

**V. M. & W.**  
 Wholesale Florists  
 47 Wabash Avenue, CHICAGO.

**Bassett & Washburn**  
 88 Wabash Ave., CHICAGO.  
 Wholesale Dealers and  
 Growers of **Cut Flowers**  
 GREENHOUSES: HINSDALE, ILL.

**Wholesale Flower Markets**

CHICAGO, July 8.

Roses, Beauties .....	per doz. 75@2.50
" Brides .....	2.00@ 3.00
" Meteora, Kaiserlins .....	2.00@ 3.00
" Bridesmaids .....	2.00@ 3.00
" Gontiers, Perles .....	1.00@ 3.00
" Testcuts .....	3.00@ 5.00
Carnations, common .....	.25@ 1.10
" fancy .....	1.50@ 2.00
Marquerites .....	.50
Lily Oratum .....	6.00@ 8.00
Harriss .....	3.00@ 5.00
Lily of the valley .....	3.00@ 5.00
Sweet peas .....	.10@ .15
Gladioli .....	4.00@ 6.00
Adiantum .....	.50@ 1.00
Smilax .....	8.00@ 10.00
Asparagus .....	40.00@ 75.00
Pansies .....	.50

**Lynch**  
**WHOLESALE FLORIST.**  
 19-21  
 E. RANDOLPH ST.  
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WHOLESALE GROWER OF ROSES. DEALER IN CUT FLOWERS.  
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**ILLINOIS CUT FLOWER CO.**  
 Wholesale Florists.  
**J. B. DEAMUD**  
 51 & 53 WABASH AVE. CHICAGO.

**WIETOR BROS.**  
 SUCCESSORS TO  
 ROGERS PARK FLORAL CO.  
 Wholesale Growers of **CUT FLOWERS**  
 51 WABASH AVENUE,  
 Headquarters For American Beauties. ....CHICAGO

**KENNICOTT BROS. CO.**  
**WHOLESALE CUT FLOWERS**  
 AND FLORISTS SUPPLIES.  
 WIRE WORK  
 A SPECIALTY. 88 WABASH AVE. CHICAGO.

**C. A. KUEHN,**  
**Wholesale Florist,**  
 1122 PINE STREET,  
**ST. LOUIS, MO.**  
 A complete line of Wire Designs.

**C. W. WORS**  
 2740 Olive Street,  
**ST. LOUIS, MO.**  
**FLOWERS** at  
 ....WHOLESALE....  
 ....ROSES, and a full line  
 Headquarters for the South West.....

**ST. LOUIS CUT FLOWER CO.**  
 Wholesale Florists  
**E. H. MICHEL**  
 1620 Olive St.  
 ST. LOUIS, MO.

**CINCINNATI CUT FLOWER CO.**  
 SUCCESSORS TO  
 H. L. SUNDERBRUCH CO.  
**Wholesale Commission Florists**  
 4th and Walnut Sts., CINCINNATI, OHIO.  
 Consignments Solicited, Special Attention Given to  
 Shipping Orders.

**HOLTON & HUNKEL CO.**  
 SUCCESSORS TO  
 The Wisconsin Flower Exchange.  
**Fresh Cut Flowers, Florists' Supplies**  
**Manufacturers of WIRE DESIGNS**  
 Consignments Solicited. Phone Main 574  
 457 Milwaukee St., MILWAUKEE.

**REINBERG BROS.**  
 WHOLESALE GROWERS OF

**Cut Flowers**

600,000 FEET OF GLASS. We can fill orders on short notice with all leading varieties  
 of Rose and carnations. We are headquarters for Fine American  
 Beauties. Try us a trial and convince yourself.

PLANTS SENT BY EXPRESS AT PLANT RATES, 20  
 PER CENT LESS THAN MERCHANDISE RATES .....

REINBERG BROS., 51 Wabash Avenue, CHICAGO.

**ROSE PLANTS**

	Per 100	Per 1000
American Beauties, 2 1/2-in.	\$4 00	\$35.00
" " 3-in.	5.00	45.00
Meteors..... 2 1/2-in.	2.50	22.50
Brides..... 2 1/2-in.	2.50	22.50
Bridesmaids..... 2 1/2 in.	2.50	22.50
Perle..... 2 1/2-in.	2.50	22.50

SMILAX PLANTS, \$1.50 per 100; \$12 per 1000.

**Store closes at 5:30 P. M.**  
 during July and August.

# MacDonald & McManus ... SUPPLY ... ORCHIDS

ONLY HOUSE IN NEW YORK HANDLING  
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

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Control the stock of many celebrated growers and are prepared to quote prices on First Grade Cut Flowers. All varieties.

38 West 28th St., and Cut Flower Exchange,  
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## JOHN YOUNG, ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

51 W. 28th Street, NEW YORK.

Price list on application.

## CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.  
The New England Headquarters for the best grade of flowers at all seasons of the year ...

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**BOSTON, - MASS.**

## The New York Cut Flower Co.

119 and 121 West 23d Street,  
112 and 114 West 24th Street,

Telephone 733-18th. **NEW YORK.**

CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.  
Mention American Florist.

## Asparagus Plumosus Nanus.

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

## Now They're Cheap!!

FLOWERS, ALL KINDS &  
PLENTY OF THEM AT

**J. K. ALLEN'S** 57 WEST 28th STREET,  
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TELEPHONE 382 38th St.

## GALVIN & CO. Wholesale Florists

AND DEALERS IN ALL

FLORISTS' SUPPLIES,

4 Ordway Place, BOSTON, MASS.  
Cut Flower Consignments Solicited. Best market.

## M. A. HART, Commission DEALER IN Cut Flowers,

44 WEST 29TH STREET,  
NEW YORK CITY.

THE BEST MARKET IN NEW YORK.  
Phone 1307 38th St.

## Wholesale Flower Markets

NEW YORK, July 6.

Roses, Beauties, Hybrid	2 00@16 00
Bridesmaids, Testouts, Brides	50@ 3 00
Morgan's Meteors	50@ 2 00
Carnations	3 @ 50
Lily of the valley	1 00@ 3 00
Sweet peas, per 100 bunches	1 00@1.50
Harrisii	3 @ 40@ 4 00
Smilax	8 00@10 00
Asparagus	40 @ 60@ 50.00
Cattleyas	25.00@40 00

BOSTON, July 6

Roses, Beauties	5 00@15 00
Morgan's Meteors	2 00@ 4 00
Brides, Bridesmaids	1 00@ 4 00
Carnations	25@ 50
Lily of the valley	2 00@ 3 00
Harrisii	3 00@ 5 00
Sweet peas	10@ .15
Smilax	12 00@ 15 00
Asparagus	50.00
Adiantum	50@ .75

PHILADELPHIA, July 1.

Roses, Beauties	1 00@20.00
Brides, Bridesmaids, Safrano	2 00@ 4 00
Kaiserina	3 00@ 5 00
Carnations	50@ .75
Lily of the valley	2 00@ 4 00
Harrisii	4 00@ 6 00
Sweet peas	15@ .25
Cattleyas	35 00@ 40 00
Smilax	12 00@15 00
Asparagus	25 00@ 35 00

## John I. Raynor,

49 WEST 28th STREET,

NEW YORK.

### SPECIAL EXTRA STOCK OF

AM. BEAUTY, METEOR,  
BRIDESMAID, BRIDE.

Record Breaking Carnations

ALL THE YEAR ROUND.

## THOS. YOUNG, JR.

Wholesale Florist

43 West 28th Street, New York.

WALTER F. SHERIDAN,

WHOLESALE

## FLORIST,

39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

## Rose Growers

Will find a good market and good returns for their stock at...

JULIUS LANG'S

53 W. 30th Street, - NEW YORK.

Edward C. Horan,

34 W. 29th Street, NEW YORK,

## WHOLESALE • FLORIST.

Careful Shipping to all parts of the country  
Price list on application.

WM. C. SMITH,

## Wholesale Florist,

40 So. 16th St., PHILADELPHIA.

Consignments Solicited. Special attention given to shipping orders  
Long Distance Telephone 5008 A.

## N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry.

Open for Cut Flower Sales at 6 o'clock  
Every Morning.....

DESIRABLE WALL SPACE TO RENT  
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

## Ford Bros...

Wholesale Florists

111 West 30th Street, NEW YORK.

Consignments Solicited. Telephone, 260 38th St.

## FRANK MILLANG, CUT FLOWERS,

WHOLESALE COMMISSION,

408 E. 34th Street,

Cut Flower Exchange. NEW YORK.

## JAMES M. KING

Commission Dealer in

## CUT FLOWERS.

Good Money for your Flowers.  
Good Flowers for your Money.

49 WEST 29TH ST., NEW YORK.  
TELEPHONE 1675 38th St.

## GEORGE A. SUTHERLAND,

## Cut Flowers and Florists' Supplies

WHOLESALE.

67 Bromfield St., BOSTON, MASS.

Wholesale Florists ALWAYS ON HAND **JOBBERS IN**

CARNATIONS, BRIDESMAIDS, BRIDES. **FLORIST'S SUPPLIES.**

**FLORISTS' VASES.**

Horticultural Auctioneers.

84 HAWLEY STREET, - BOSTON.

## THE NURSERY TRADE.

### AM. ASSOCIATION OF NURSERYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

ST. LOUIS, MO.—Stark Bros. are building a handsome fire proof office building at their nurseries, Louisiana, Mo.

MRS. C. E. BUDLENG is one of the most successful traveling sales people of the Chase Bros. nursery at Rochester. Her territory is in Indiana.

AUGUSTA, ME.—The strawberry and rose meeting of the Maine State Pomological Society was held here on Tuesday and Wednesday, June 5 and 6.

THE American Orchard Company at St. Louis has been incorporated with \$100,000 capital. L. W. Day holds 998 shares and J. E. Hereford and J. W. Darst one share each.

NURSERYMEN have received complaint that the apple crop of southern Illinois and Missouri will be almost a total failure and that peaches and pears will be but a good half crop.

DETROIT, MICH.—W. P. Hurlbut has been appointed secretary and manager for the park commissioners at a salary of \$2,100. R. J. Coryell was appointed floriculturist at a salary of \$1,500.

LENOX, MASS.—On the evening of Saturday, July 2, a very interesting exhibition of roses and strawberries was held by the Lenox Horticultural Society. George H. Thompson read a paper on "The Rose Garden."

GENEVA, N. Y.—George S. Conover, the historian and one of New York's prominent citizens, died July 5, aged 74. He established a nursery here in 1870 and was engaged in the business for several years. A wife and daughter survive him.

### Hardy Herbaceous Plants.

[Abstract of a paper read before the Toronto Horticultural Society, by J. McPherson Ross.]

Herbaceous is a name commonly applied to all plants with perennial roots and annual stems. As a general thing in the past hardy herbaceous plants have not received the attention they deserve, but I am glad to see that there is a growing interest now taken in them, particularly by the professional gardeners, who as a class have rather despised them. Perhaps this may be attributed to their easy growth, calling for no special care in their propagation or after cultivation. Leaving the profession out of the question, we might say that public indifference is largely due to pure and simple ignorance of their value; but the main reason may be better attributed to the common practice of indiscriminate planting, to that hit or miss style which can be seen anywhere and everywhere with but very few exceptions. It is evident now that this indifference is passing away for nearly every floral publication issued recently contains reference of some kind about the beauty and value of hardy herbaceous plants. It is sometimes urged that there would be more of them planted if their flowering season were longer, that the majority of them last such a short time in bloom that to have many flowers would require very extensive collections, taking up too much space in small gardens, and that, therefore, the general employment could be most suited for extensive grounds or parks. There is

very little in this argument. That we see them fade with regret and turn with zest to the season of flowering of the next favorite, forms, to my judgment, their chief claim to attention.

Then there is the foliage, so attractive in its varied forms and colors. I find also that the artistic delight in color is growing with the public so that there is a real source of enjoyment in the study of the endless scale of greens. At least one very clever gardener assured me that he took almost as much pleasure in comparing the varying shades of the foliage as he did in the flowers. I think, myself, that the renewed interest taken in herbaceous plants is partly owing to too much carpet bedding and ribbon planting with which we have been dosed so heavily during the past twenty years; and really, in many cases, artificial plants would answer just as well as natural ones in the formal arrangements where the individual characteristics of the flowers are lost and only the color effects shown, which could also be more easily and just as satisfactorily secured by painting the various forms on the sod with colored calcimine. We turn with relief to our herbaceous plants after this exhibition of floral fireworks. No other system is so effective in displaying the beauties of herbaceous plants as that of grouping each kind in masses without definite form. Always avoid circles, squares and rows, and by keeping this in mind when planting collections you will produce the effect of the plants growing and spreading naturally. The various kinds can be cultivated just as conveniently by the commercial grower in irregular masses and systematically labeled and dug for packing and shipping in the selling season as if they were grown in straight rows. In this way they also are shown in the most attractive manner to a customer, and the most suggestive for his or her own planting.

A proper selection of the different species will give us flowers from earliest spring to latest fall, forming a constant source of pleasure and gratification to the grower, so that starting with the earliest flowering dwarf irises, pansies, forget-me-nots, the sprightly daisy, phlox subulata, the graceful racemes of the bleeding heart, and many others, we have nearly two months of flowers before it is safe to plant out such greenhouse stock as colonses, geraniums, etc. Besides the renewed interest now shown in well known varieties of herbaceous plants, there is also a general awakening to the fact that many of our native wild flowers are exceedingly beautiful and deserving of a place in our gardens. The hardy trillium is eagerly sought after and brings high prices in Europe, also the dog's tooth violet, hepaticas, lady slippers and many other native plants that heretofore received but slight attention are now collected and grown with zeal and care. This popularizing of the neglected herbaceous plants will be productive of good. New varieties will be produced at a rapid rate, and as an example we may note the endless varieties of the columbine and poppy now in cultivation. We cannot yet estimate the value of herbaceous plants. In order to do this accurately we must consider their hardiness, the small amount of care required after planting, their adaptability to any situation, thriving in poor as well as rich soils, sandy or clay. Then there is the question of expense, their low cost and permanence often rendering them preferable in comparison with our bedding plants which require renewal every season. In herba-

ceous plants we do not lack for contrasts in growth, for in size we find in the plants, from the dwarf phlox to the gigantic polygonums, every variety of color and form of bloom and foliage. In this assortment we find plants suitable for any location, small beds and borders in the contracted city lot as well as large plantations on big estates and public parks.

It would be impossible in the limits of this paper to fitly describe the beauties and characteristics of each plant, or even to mention without description the numerous varieties. The subject is entirely too large to be treated in one evening as there is an abundance of interesting matter to make a paper on herbaceous plants alone for every meeting of the society. The flowering season of these plants, in many cases, can be prolonged by cutting back the old flower stems, which will have the effect of throwing out new flower spikes later on. This is true notably of phlox and larkspurs. It is not necessary to mention soils most favorable for their growth, for as I said before, the majority of them will grow anywhere, though like everything else they rejoice in a rich clean soil and in all other good conditions of it. Nor have I much to say regarding their propagation, as they grow so freely from division that it is not necessary to go to the trouble of raising them from seeds. There is no special call for art or skill in their planting or proper disposition. In such a case the purchaser of plants would be required to learn the habit and nature of each so as to plant the creeping or dwarf growing plants in situations suitable for them; as for instance, the moneywort on rockeries, margins or borders, the moss pinks on hillocks, etc. The rule most generally followed in planting early flowering species and varieties is to put them in the most conspicuous point of observation, such as by the gateway or in the border by the pathway leading to the residence. This desire may be explained by stating that there is almost an anxiety on the part of everyone to show early flowers, and after the long dreary days of winter it is a positive pleasure to see the first flowers of spring. Tall growing plants are usually placed in the back of the border next the buildings, trees or fences or in the center of large groups, as the case may be. Where the grounds are large enough to permit it, the grouping of thirty or forty plants of one species together makes a fine effect; a large bed of peonies, for example, produces a very fine effect in themselves. A bed of hollyhocks with *Bocconia cordata* in the center, then a broad circle of peonies, next irises or campanulas, then *Achillea aurea* or *Spiraea filipendula*, finished off with an edge of *cerastium* always commands admiration. Of course, other and better combinations may be made, but it is always best not to observe uniformity.

### Worcester, Mass.

Business has finally reached the low summer mark and about all the storemen have to do is to keep cool and talk learnedly of how the war should be carried on. With the grower things are entirely different, for, stripped of superfluous clothing, he is repairing benches, planting roses, keeping down the everlasting weeds and doing the thousand and one things that the thrifty man finds to do at this time.

Carnations have finally succumbed to the hot weather and are getting small

and will soon be worth less than the water it takes to keep them alive. Roses are holding out well and we are getting good Kaisersins, Bridesmaids and Brides. Outside summer flowers are plentiful and useful to keep the store windows looking respectable.

The Horticultural Society's exhibition, June 30, was one of the best and largest of the season, as more than 1300 vases were filled with the various flowers called for in the schedule, and there was not a poor vase in the hall.

The display of cut flowers was up to the usual high standard, and the premiums were awarded to H. F. A. Lange, F. A. Blake and H. A. Jones in the order named. For hand bouquets, H. F. A. Lange, A. A. Hixon and Mrs. Thos. W. Ward were winners. There was a very fine display of Campanula Medium and first prize was awarded to F. A. Blake, second to E. A. Underwood and third to T. E. Fisher. The display of Dianthus barbatus was unusually large and fine. T. H. Bennett had a splendid exhibit and captured first, F. P. Alexander second and T. E. Fisher third. F. A. Blake was awarded first for foxgloves, T. E. Fisher second and W. G. Fobes third, and they made a splendid showing. The display of H. P. roses was almost equal to that of last week and Edward Hall took first, F. A. Blake second and Mrs. H. A. Jones third. The attendance was very large.

A. H. L.

## Cincinnati.

OHIO FLORISTS ENJOY THE HOSPITALITY OF THEIR HOOSIER BROTHEREN AT THE MID-SUMMER MEETING AT RICHMOND.— A VISIT TO HILL & COMPANY'S FINE ESTABLISHMENT.

On July 2 President R. Witterstaetter, of the Cincinnati Florist's Club, and W. Murphy, Wm. Mann, E. Forder, E. G. Gilbert, Geo. Bartlett and H. Schwarz, accompanied by their judicial friend, Theodore Bock, of Hamilton, were the guests of the Indiana State Florists' Association at its annual mid-summer meeting, held this year at Richmond.

The Buckeye party was met at the station by John Evans, of ventilator fame, whose silver cup the bowlers will strive for at Omaha, who escorted the delegation to the session, where President Witterstaetter arrived just in time to be presented with a finely upholstered rocking chair. S. Stuart, of Anderson, who acted as chairman of the meeting, made the presentation speech in happily chosen, well turned phrases and told the surprised Ohioan that the soft seat was but a token of the association's appreciation of his services as judge at the annual chrysanthemum shows, a position he has filled for the past three years. Mr. Witterstaetter responded feelingly and others of the visitors gave short talks of a felicitous nature.

At 1 o'clock, the business session having been very brief, the visitors were dined at the Wescott Hotel by the Richmond florists. Following the repast the party visited various points of interest, notable among them being the establishment of E. G. Hill & Co., where the range of houses would serve as the model for a perfect plant. Mr. Hill has 165,000 carnation plants in the field but he makes roses his specialty and 100,000 teas have just been potted up. One of his houses contains 36,000 Brides and Bridesmaids in fine condition. A house 25x175 is filled with *Lantana borbonica* in 5-inch pots and growing splendidly.

H. SCHWARZ.

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**Cineraria** seed of large flowering dwarf varieties in choicest mixture, pkt., 25c; 6 pkts., \$1.00.  
**Primula obconica**, pkt., 100 seeds, 35c  
**Primula floribunda**, fine yellow, pkt., 25c.

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RECLEANER AND JOBBER GRASS SEEDS,  
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PEONIES, PHLOX, IRIS, DELPHINIUMS,  
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ESTABLISHED 1854

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20,000 American Arbor Vitae, 2 to 8 feet specimens and hedging plants.  
5,000 Pyramidal Arbor Vitae, 2 to 4 feet.  
20,000 Compacta, Globe and other dwarf Arbor Vitae, all sizes.  
3,000 Nordman's Silver Fir, 1 to 2 1/2 feet.  
2,000 European Silver Fir, 2 to 4 feet.  
5,000 Hemlock Spruce, 1 to 4 feet.  
10,000 Norway Spruce, 3 to 8 feet.  
10,000 Retinosporas, Squarrosa, Plumosa, Plumosa aurea and other sorts, 1 to 5 feet.  
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10,000 Pines, Austriau, Scotch, Excelsa, White and dwarf varieties, all sizes.  
1,000 Enonymous Japonica, 18 to 36 inches.  
2,000 Enonymous radicans variegata.  
1,000 English Holly, 1 to 4 feet.  
3,000 Mahonias aquifolia and Japonica.  
3,000 English Ivy, strong plants.  
Prices low. Correspondence solicited.

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A SPLENDID ASSORTMENT OF

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Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.

Price list ready in July.

Special quotations gladly submitted by letter.

**Jackson & Perkins Co.** Newark, New York.

### NEW SEEDS.

**PRIMULA**—Florist strain, trade pkt. 50c; double trade pkt. \$1.00.  
**PANSY**—Mittig's Giant Flowering, florist strain, trade pkt. 50c; double trade pkt. 75c, or 1/4 oz. \$1.00, 1 oz. \$4.00.  
**PANSY**—German, trade pkt. 25c; double pkt. 40c, or 1/4 oz. 50c, 1 oz. \$2.00.  
**CINERARIA Hybrid**—Trade pkt. 50c; double trade pkt. \$1.00  
Above seeds have been tested and found 91 per cent. new 1898 seeds.

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My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

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### Azaleas, Roses, Rhododendrons

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THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOJGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

S. Y. HAINES has returned to Minneapolis much improved in health.

H. M. EARL is inspecting the seed crops on the Pacific coast for W. A. Burpee & Co., of Philadelphia.

In the vicinity of Charlotte, Mich., there will be a shortage in the clover seed crop. The plants did not blossom.

SWEET PEAS are now being harvested in California. Present indications are that about half the list will be filled in full while the remainder will be from twenty-five to seventy-five percent short, averaging forty per cent.

ERFURT.—Writing under date of June 15, a correspondent refers as follows to German pansy seed prospects: "The continuous cold weather from March until May retarded the development of plants. The few warm rains lately experienced started a better growth, but even with this advantage the new crop of seeds will not be ready before July 20. Up to date only one picking has been made, with small results."

The Harrisii Lily Disease.

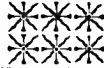
We are informed on excellent authority that the British government has sent a Kew man to Bermuda to investigate the Harrisii lily disease, and if possible to take such steps as will insure its eradication. This expert is of the opinion that the mite or insect, to the presence of which the disease is due, thrives in any land that is over fertilized with chemical manures, and is not peculiar to Bermuda or the Harrisii lily. The real trouble, he claims, lies in the fact that the stock itself is weakened in vitality. The bulbs in the past have been forced to such an extent by the aid of chemical fertilizers that the scales employed for propagation are unable to produce healthy bulbs. New stock from another source, Holland, for example, it is stated, would prove sufficiently robust to successfully resist the attacks of this pest.

The Dutch Bulb Outlook.

The Holland houses report, June 24, quite unfavorably on this season's crop. They say this is especially the case with all hyacinths, and intimate that it will be almost impossible to supply the usual amount of stock in regular sizes when the time comes to execute the orders of the present season. They do not state, however, whether the prices at which they have taken early orders will be reduced to correspond with the sizes which they will be obliged to deliver. A few articles are said to have done well, such as crocuses, scillas and narcissi in general, although double Von Sions have not done quite so well as other narcissi. The cause of the damage to the hyacinth crop is attributed to the severe frosts in February and March and the continued unfavorable weather following. The leaf growth died off at least three weeks too early and at the very time when the bulbs should swell and increase in size. The tulip crop, while not so unfavorably influenced, will as compared with that of hyacinths, be far better.

FREESIA BULBS!

From careful inspection by our representative in the growing fields during the past season, we believe this "BERMUDA" stock to be the purest giant flowering strain of White Freesia in the world.



A Few of OUR SPECIALTIES: "London Market" Brand Lily of the Valley Pips, Japan Lilium Longiflorum, Lilium Harrisii, Azalea Indica and Bermuda Grown Freesias.

WHITE GIANT FLOWERED

"Bermuda" Grown. New Crop Now Ready.

	Per 100	Per 1000
MAMMOTH SIZE.....	\$1.25	\$9.00
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Samples free on application.

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Headquarters for "Fancy" Bulb Stock,

CHICAGO: 84-86 RANDOLPH ST. NEW YORK: 11 BARCLAY STREET.

To Whom It May Concern:

An ambiguous notice having been circulated to the effect that my connection with the business carried on under the style and title of Miss C. H. Lippincott, of 319 Sixth Street, South, Minneapolis, Minn., had terminated, I beg to present the facts to the public as follows:

The business conducted under the above firm name was originated by the undersigned, who was also responsible for the capital and credit of the concern. In addition the said undersigned supplied all the advertising matter, compiled the various catalogues, made all purchases and was sole manager of above business in its entirety.

The position of C. H. Lippincott in said business was purely of a clerical character, and for family reasons and the use of her name she was given a one-half interest in the same. Some two or three months ago it was agreed between us that we dissolve partnership, but up to the present date no such dissolution has been effected, the said C. H. Lippincott refusing to accept a "give or take" proposition. From the notice to which reference has already been made it would appear that she does not wish to settle the matter amicably, but would compel the subscriber to place the business in the hands of a receiver for adjustment.

The undersigned therefore begs to notify the trade and public generally that he shall not be responsible for any contracts made by C. H. Lippincott after this date.

S. Y. HAINES,

21 N. 17th St., MINNEAPOLIS, MINN.

July 9, 1898.

TO THE TRADE!

WHEN closing December last my arrangements with the Joseph Breck & Sons Corporation to expire on May 31st., 1898, I organized the Braslan Seed Growers Co. to act as selling agents for leading seed growers of the United States and Europe.

The liberal patronage extended to me while interested in that corporation I gratefully acknowledge and appreciate.

I shall in the future manage the new company as selling agents for reliable seed growers of all lines of vegetable and flower seeds. Orders will be received by and shipped to you direct from the producers. Your requirements when placed with us secure to you fresh new crop seeds at practically growers' contract prices.

My former customers, friends in the trade and others who may expect to require seeds of THIS SEASONS CROP on a basis of close contract prices are cordially invited to correspond with

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Mail or telegrams addressed to either office will receive prompt attention.



UP-TO-DATE Florists should not be without our new 1898 Directory. Price only \$2.00. Flexible leather binding \$3.00.

Indianapolis.

THE MID-SUMMER MEETING OF THE INDIANA STATE FLORISTS' ASSOCIATION AT RICHMOND, JULY 2, WAS MOST SUCCESSFUL.

The annual mid-summer meeting of the Indiana State Florists' Association was held at Richmond on July 2, and was attended by twenty-five delegates from outside the city chosen for the gathering. There were present thirteen from Indianapolis, two from Anderson, one from Kokomo, seven from Cincinnati and one from Hamilton.

The business session was short and nothing of importance was put upon the minutes. The matter of the annual chrysanthemum show was deferred to the September meeting, although it was virtually decided to hold another exhibition this fall.

A fine chair was presented to President R. Witterstatter, of the Cincinnati Florists' Club, as a mark of appreciation of his services as judge at the previous Indianapolis shows. The rest of the day was spent in visiting the factory of John Evans and the greenhouses of E. G. Hill & Co. The visitors were well entertained. J.

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Kentia Belmoreana and Forsteriana will arrive in a few weeks.

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**COCOS WEDDELIANA.**

Each  
1 plant 4-in. pot 15-18 inches high, 40c  
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**Asparagus Sprengeri**

50 000 Plants in 2 1/2-inch pots, \$5.00 per 100. express: 24 for \$1.50 by mail. Specimens for 8-in. pots, \$5.00 per 12.

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324 DEARBORN STREET, - CHICAGO, ILL., U. S. A.

**Good Stock! Low Prices!**

**CANNAS** Strong plants of Alphonse Bonvier, Chas. Henderson, Egan-dale, Paul Margant, Wm. Elliott Bisson, Soc. Stewart, Flamboyant, \$4.00 per 100; \$35.00 per 1000.

**COLEUS** Crimson Verschaffeltii, Golden Queen and Golden Bedder, \$2.00 per 100; \$18.00 per 1000.

**Geraniums** Double Gen. Grant and S. A. Nutt, 2 1/2-inch pots, \$3.00 per 100; \$28.00 per 1000; extra good, 4-inch pots, \$7.00 per 100; \$65.00 per 1000.

**Cobæa Scandens**, 4-inch pots.....\$6.00 per 100.

JOHN SCOTT,  
KEAP STREET GREENHOUSES,  
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Mention American Florist.

**Orchids..**

JUST ARRIVED IN FINE SHAPE: Cattleya Warnerii, Laelia Perrinii, Laphronites Grandiflora and Coceinea, Miltonia Spectabilis and many more.

LAGER & HURRELL, - Summit, N. J.

**Asparagus Sprengeri**

SEEDLINGS ALL SOLD.  
Fine Plants, \$8.00 per 100. Sample by mail 10 cents.  
American Rose Co., Washington, D. C.

**E. G. HILL & CO.,**  
RICHMOND, INDIANA.

**Cycas Revoluta Stems**

Popular sizes, 3 to 6 lbs each. .... 10 cts. per lb.

**"NOVELTY" TULIP**

**For Florists' Forcing.**

White, shaded with beautiful rose pink. Best selling Tulip in the market last season. Bulbs ready in September. Write for prices.

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**PALMS and FERNS**

The Largest Stock of PLANTS IN THE WEST



**GEO Wittbold**  
1708 N. HALSTED ST. CHICAGO

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Louisville.

KENTUCKY FLORISTS HAVE FOUND PROSPERITY.—OPTIMISTIC VIEWS FROM THE BLUE GRASS REGION.—MUCH BUILDING IN SIGHT.—A GOOD SPRING PRESAGES AN EVEN BETTER WINTER.

The "hard times" song with its spirited accompaniments is no longer sung in Kentucky. Instead you hear the buzz of the saw and the clang of the hammer, sounds indicative of a general revival of activity among the florists. I say "general" because there is scarcely a florist in the city but is making some improvements about his store or greenhouses. Jacob Schultz, the dean of the florists, has in course of erection two additional houses, one intended for miscellaneous stock will cover 32x152, and the other one, for violets, 12x140. It is needless to add that the houses are being built in the best possible way and will prove a creditable addition to his already extensive plant. Mr Schultz reports an unusually good spring trade and it is his opinion that the coming season will keep us all hustling. Mr. Schultz, by the by, is one of the staunchest conservatives in the trade.

J. E. Marret does things well while about them. Five additional houses are now being pushed to completion. The best up-to-date methods are being employed and when completed Mr. Marret's establishment will be one of the finest of the kind in the south.

Geo. Schultz, the Goss avenue florist, will soon commence building an additional house of 20x104. As usual, George's place is a model of neatness, everything about his establishment looking spick and span, and his stock being in the best of condition.

Joseph Coenen & Co. are building three additional houses for roses and carnations. A fall from a roof has kept Mr. Coenen's partner confined to his bed for the past six weeks. It is the more unfortunate because Mr. Coenen himself has barely recovered from a similar mishap.

Chas. W. Reimers, of palm and American Beauty fame, will this summer enlarge his already extensive place by one more house. Mr. Reimers has no kick coming, his trade being on the increase while the outlook, in his opinion, is decidedly encouraging. Florist Kunzman will add one more house to his plant and has recently opened a flower store at 806 West Jefferson street.

There is something inviting about the establishment of Wm. Mann, the calla lily king. There is no chaotic, topsyturvy state of affairs here; busy or not busy, neatness and order obtain everywhere. Mr. Mann is a very successful, all around grower, and his flowers never go a begging.

E. G. Reimers, if the rumor be true, was born under a lucky star. While many are complaining about palm seed being a failure this year, his came up in fine shape and his houses are literally packed with thrifty looking seedlings. Business has been fine with him all along the line.

S. J. Thompson and his staff of able assistants were kept quite busy on funeral work during the past week. Mr. Thompson's flower store keeps pace with the times, that is, it has been equipped with all the modern improvements such as a fine show window, incandescents lights, and a commodious ice-box. Business, says Fred Haupt, has been unusually brisk with him all along. Accompanied by Mrs. Haupt and little daughter, he will shortly leave for a month's sojourn in a Michigan summer resort.

YOUNG ROSES PLANTS

	From 2 1/2-inch Pots.	Per 100	Per 1000
AMERICAN BEAUTIES .....		\$4.00	\$35.00
BRIDES .....		2.50	20.00
METEOR.....		2.50	20.00

TERMS CASH WITH ORDER.

J. A. BUDLONG, 37-39 Randolph Street, CHICAGO, ILL.

ROSE PLANTS AS GOOD AS CAN BE GROWN

We have the following Rose Plants, the same stock as we have planted in our own houses, still on hand and for sale. We guarantee them to be first-class in every respect. . . . .

3000 Am. Beauties.....	2 1/2-in. pots.....	\$5.00
2000 Bridesmaids.....	2 1/2 " .....	2.50
800 Meteors .....	2 1/2 " .....	2.50
500 Brides.....	2 1/2 " .....	2.50

FIRST COME—FIRST SERVED.

BASSETT & WASHBURN, Hinsdale, Ill.

**ROSES! AM. BEAUTY**  
 Extra strong, clean and healthy plants from 3 in. pots at \$7 per 100; \$15 per 1000. Sample mailed on receipt of 10c in stamps. Cash with order.  
**John B. Goetz**  
 2165 Mackinaw St., Saginaw, W. S., Mich.

**ROSES..**  
 2-in. per 100 3-in. per 100  
**Am. Beauties ..** \$5.00  
**Perle .....** \$2.75 4.50  
**Bridesmaid ...** 2.75 4.50  
**MAPLEWOOD CUT FLOWER and PLANT CO.**  
 PLEASANT HILL, MO.

**ROSES! ROSES!**  
 Brides, Maids, Kaiserin and Meteor from 2-inch, \$3.00 per 100; \$25.00 per 1000.  
 Brides and Meteor, from 3-inch, \$5.00 per 100; \$45.00 per 1000.  
 50 at 100, and 500 at 1000 rates. Cash with order.  
**ROBERT F. TESSON,**  
 West Forest Park, - St. Louis, Mo.

**Memorial Rose**  
 (Rosa Wichuraiana)  
 Strong field-grown plants, \$50, \$75 and \$100 per 1000  
**SAM'L C. MOON,**  
 MORRISVILLE, Bucks Co., PA.

**AM. BEAUTY, BRIDE, BRIDESMAID, PERLE, LA FRANCE, TESTOUT, MORGAN, NIPHE-TOS, KAISERIN, 3 and 4-INCH.**  
 Asparagus Plumosus, All Sizes.  
**Marie Louise Violets** Young Plants. Well Rooted...  
**A. S. MacBEAN,** Lakewood, New Jersey.

**ROSES BEAUTIES,**  
 3-inch, \$7 per 100.  
**MAIDS, BRIDES, PERLES AND METEORS** \* \* \* \* \*  
 3-inch, \$6.00 per 100. 4-inch, \$8.00 per 100.  
**POEHLMANN BROS.** Morton Grove, Cook Co., Ill.

**CHOICE 3-INCH PERLES**  
 For Immediate Planting.  
 Fine stock, which will make you money. Write at once. Also some extra nice 3-inch METEORS, and some good BEAUTIES and BRIDES.  
 Samples on receipt of 25 cents in stamps  
**W. H. GULLETT & SONS,** Lincoln, Ill.

**FINE ROSE STOCK**  
 FOR PLANTING, Out of 3-inch pots.  
 METEORS, VICTORIA KAISERIN, MAIDS, BRIDES, BELLE SIEBRIGHT, PERLES AND BEAUTIES.  
 Write for prices. Send 50c. or \$1.00 for sample lot of what you want to  
**GEO. A. KUHL, PEKIN, ILL.**

**AMERICAN BEAUTY**  
 Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100. \$70.00 per 1000.  
**EDWIN LONSDALE,**  
 Wyndmoor, Chestnut Hill, Philadelphia, PA.  
 Cash with order Money Order Office, Station H, Phila

**Chrysanthemums!**  
 New and standard varieties. Extra fine plants from 2-inch pots. Send for price list. Discount on large orders. . . . .  
 ADDRESS...  
**H. WEBER & SONS,** Oakland, Md.

You can do more than Pay Your Rent by Advertising your Surplus Stock in The American Florist.



# Grafted Roses

but strong vigorous stock, American Beauty, 3-inch @ \$10.00 per 100; \$80.00 per 1000. **Bride, Bridesmaid, President Carnot, Kaiserin, Meteor, La France, Perle, Mrs. P. Morgan, Wootton:** These are extra large plants in perfect condition from 3-inch pots @ \$8.00 per 100. If you want a large lot, write us for special price and samples. ❀ ❀ ❀ ❀

American Beauty, Carnot, and Testout from 4-inch pots, in extra fine shape @ \$15.00 per 100.

Bridesmaid, extra fine, 3-inch pots @ \$15 per 100; \$125.00 per 1000.

Also the following varieties, not grafted,

## ASPARAGUS SPRENGERII

From 2-inch pots, \$5.00 per 100; \$45.00 per 1000. This is extra fine stock. Strong 3-inch plants @ 10.00 per 100; \$85.00 per 1000. Write for special prices on large quantities.

## Asparagus Plumosa

Strong 2-inch plants @ \$6 per 100; \$50 per 1000. Strong 4-inch plants @ \$15 per 100; \$125 per 1000.

**Robt. Craig & Son,** Market and 49th Streets, **Philadelphia.**

# Forcing Roses

**FIRST-CLASS, CLEAN, HEALTHY STOCK.** ❀ ❀

We claim **GOOD VALUE** at these prices. Send for samples.

	2½-in. per 100	3½-in. per 100
American Beauty	\$6.00	\$12.00
Souv. de Wootton	5.00	10.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria	4.00	9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00
Asparagus Sprengerii, 2-in. pots, strong	per 100, \$5.00	
Asparagus Plumosa, 2½-in. pots, fine stock	per 100, 7.00	
Boston Fern 2½-in.	6.00	
Nephrolepis Exaltata, 4-in.	15.00	
Ferns in assortment, 2½-in.	4.00	
Araucaria Excelsa, 6-in. pots, 15-18-in. high	@ \$1.50 each	
Cocos Weddelliana, 3-in. pots	@ \$2.50 per doz.	
Kentias, Arecas, Lantanas, etc., large quantities in all sizes.	Write for Special Prices, on sizes you want.	

## VAUGHAN'S SEED STORE,

Greenhouses: **CHICAGO:** Western Springs, Ill. 84-86 Randolph St.

# Roses

With Good Heads and Substantial Feet....

**BRIDE BRIDESMAID GONTIER**

\$10.00 per 100; \$80.00 per 1000. From 4-inch pots, and they are good. Other desirable sorts in limited quantity.

**GEO. L. PARKER,**

807 Washington St., - Dorchester, Mass.

# Surplus Roses

Brides, Bridesmaid, Perles and La France; fine healthy stock @ \$4 per 100; 4-inch pots, \$6. ❀ ❀

**CRABB & HUNTER,** 509 Madison Ave. GRAND RAPIDS, - MICH.

# FORCING ROSES

	2½-in. Per 100	3½-in. Per 100
BRIDE	\$2.50	\$2.50
BRIDESMAID	2.50	2.50
METEOR	2.50	2.50
White, Pink and Yellow Rambiers, same. Moonvines	\$20.00; Alternantheras \$18.00 per 1000.	

**THE NATIONAL PLANT CO.,** Dayton, Ohio.

We like to have you tell our advertisers that you read our paper.

# Rose Plants

**OUT OF 2 1-2 INCH POTS.** ❀

	Per 100	Per 1000
AMERICAN BEAUTIES	\$5.00	\$45.00
METEORS	3.00	25.00
MAIDS	3.00	25.00
PERLES	3.00	25.00

**WIETOR BROS.** SUCCESSORS TO **ROGERS PARK FLORAL CO.**

Wholesale Growers of....

**CUT FLOWERS ROSE PLANTS....** ❀

**51 Wabash Ave.**

**CHICAGO**

# ROSES. ROSES. ROSES.

American Beauties, Bride, Bridesmaid, Bon Silene, Caroline Testout, Kaiserin Augusta Victoria, La France, Meteor, Morgan, Perle, Souvenir de Wootton, etc., etc.

Also Clothilde Soupert, Mossella and Clara Watson, suitable for immediate planting for summer blooming in extra fine stock from 3 and 4-inch pots.

**JOHN N. MAY,** = Summit, New Jersey.

# CLOSING OUT PRICES! CHRYSANthemum ❀ ❀ ❀

**MRS. A. F. WIENOLD,**

The finest of the large early whites. Extra strong plants, 2½-inch pots, \$1.00 for 12; \$6.00 for 100.

**ROSES** Ready to shift. Not old, hard wooded stuff, but young healthy plants, Brides, Bridesmaids, Perle, Sunset and Niphotos. 2½-inch pots at \$2.50 per 100.

**McDONALD & STEELE,** Crawfordsville, Ind.

# 40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON	LA FRANCE	AMERICAN BEAUTY	PRESIDENT CARNOT
METEOR	KASERIN	SUNSET	BON SILENE
PERLE	GONTIER	MME. HOSTE	NIPHOTOS
BRIDESMAID	BELLE SIEHRECHT.	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 1000.

**J. L. DILLON,** Bloomsburg, Pa.

Pittsburg.

PROBABILITIES OF A LARGE PARTY FOR THE TRIP TO OMAHA.—BUILDING INDICATES PROSPERITY.—J. F. GIBBS SELLS HIS FIFTH AVENUE ESTABLISHMENT.—MRS. KLOPFER'S NEW STORE.—SMOKY CITY NOTES.

There is no change for the better in trade to report. For the past week everything has been quiet, and the only demand has been for funeral work, and that not to excess.

A few of the florists are endeavoring to work up interest in the S. A. F. convention and are busy trying to secure a lower rate of railroad fare to Omaha, also trying to have the florists in western Pennsylvania go with the Pittsburg club, and are meeting with fair success.

Gustave Ludwig has received a letter from Messrs. W. T. and F. P. Butz, New Castle, Pa., stating they will be too busy to attend the convention, as they will be putting up two new rose houses, each 20x125, and this with their other repairs will prevent their leaving home. M. I. O'Brien, Sharon, Pa., also informs Mr. Ludwig that he will have to forego the pleasure of being with the Pittsburg contingent at Omaha, as he will put up over 5,000 feet of glass this season, and must be at home when the houses are being erected.

J. F. Gibbs, of Woodville, has disposed of his Fifth avenue establishment to E. Poland, and will hereafter give his personal attention to his extensive plant at Woodville. Mr. Poland has been for the past nine years in charge of the greenhouses at Morgantza, the State Reformatory of western Pennsylvania, and is thoroughly equipped to make a success with his new venture. It is not definitely settled yet whether Mr. James Dell, who has been with Mr. Gibbs at Fifth avenue, will continue with Mr. Poland or not, but the probabilities are that he will do so.

Mrs. S. Klopfer has recently opened a cut flower store at 220 Ohio street, Allegheny City, under the firm name of The American Florist and Decorator. This is the first flower store started in that part of Allegheny, and Mrs. Klopfer believes, judging by the business already secured, that she will succeed in working up a good, healthy trade.

Lincoln I. Neff has returned from an eastern business and pleasure trip, and says he is now ready for all the business he can get. The trip evidently agreed with him.

O. A. C. Oemhler, formerly of Pittsburg, but now with Mr. Gasser, of Cleveland, with his family, spent the Fourth with his relatives here, returning on Tuesday morning. Mr. Oemhler is very well pleased with Cleveland and the business there. REGIA.

Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.  
RUDOLPH VAN TIL & CO.,  
Hillegom, Holland.  
American Representative  
L. C. BOBBINK, Rutherford, N. J.  
ASK FOR CATALOGUE.  
Mention American Florist

BULBS For FLORISTS, For SEEDSMEN.

VAN ZANTEN BROTHERS,  
HILLEGOM, HOLLAND.

SEASONABLE FLOWER SEEDS



VAUGHAN'S INTERNATIONAL PRIMULA MIXTURE

This mixture is composed of the most salable colors of Single Flowering Chinese Primulas, the best whites, pinks and reds, with a sprinkling of other colors, enough to give a large variety of colors. We have taken special pains to make this mixture as complete as possible and unreservedly recommend it to everyone.

Price for Pkt. of 350 seeds, 50c  
International 5 pkts. 1750 \$2.00  
Primula Mixture Per 1-16 oz. 2.50

Chinese Primula	250 Seeds	1000 Seeds
Chiswick Red.....	.50	\$1.75
Atrosanguinea, rich red....	.50	1.70
Alba Magnifica, best white .50		1.70
Rosa, pink.....	.35	
Blue, clear sky-blue.....	.50	1.70
Alba, pure white.....	.50	1.50
Mixed, 1/2-oz., \$3.00.....	.25	1.00
Double Mixed.....	150 seeds, 50c	

SEND FOR OUR COMPLETE LIST OF SEASONABLE SEEDS INCLUDING PERENNIALS AND NEW CROP PANSY SEED.

CHATER'S PRIZE HOLLYHOCKS.

Our seed of this has been saved from the finest and largest double flowers only and will produce flowers extremely double and in the best, brightest and most distinct colors. Sow now.

	oz.	Trade pkt.
Double Pure White.....	1/4-oz., 25c.	.75 10c.
Lemon Yellow, Pink, Purple Red, Rose, Salmon, Crimson, each, 1/4 oz., 25c.		.75 10c.
Chater's Prize Hollyhocks, double mixed.....	1/4-oz., 25c.	.75 20c.
Double Hollyhocks, good mixed.....	1/4-oz., 20c.	.60 10c.

Vaughan's Columbian Cinerarias

Very finest English, French and German strains; the flowers are extra large, from 7 to 8 inches in circumference and in most brilliant colors.

Columbian Cinerarias mixed, per trade pkt. about 1000 seeds, 50c; 3 pkts. for \$1.25.

CINERARIA HYBRIDA, large flowering mixed, trade pkt., 25c.

CINERARIA HYBRIDA NANA, large flowering dwarf, mixed, trade pkt., 25c.

CINERARIA, double flowering, trade pkt., 50c.

VAUGHAN'S SEED STORE,

NEW YORK: 14 Barclay St.

84 & 86 Randolph St., CHICAGO.

PRIMULA OBCONICA ROSEA

The latest novelty of the year. Extra large flowers of a rich, clear rose color; very showy, attracting instant attention. A grand improvement on the old Obconica in size and beauty. Per trade pkt. of 1200 seeds, \$1.00; half pkt., 50c.

JOHN F. RUPP, Shiremanstown, Pa.

CHINESE PRIMROSES

20,000 PRIMROSES, single mixed, 2-inch..... \$2.00  
SMILAX, 2 1/2-inch pots, \$9.00 per 1000, 1.00  
ALTERNANTHERA, Red and Yellow..... 1.00  
CINERARIA, ready in August..... 2.00  
PANSY SEED, 1/2 oz., \$2.00; oz., \$3.50. CASH.

JOS. H. CUNNINGHAM, Delaware, O.

SPECIALTIES IN BEST VARIETIES.

ROSES, from 3 inch pots.  
CARNATIONS, for fall delivery  
CHRYSANTHEMUMS.  
SMILAX.

Prices low. Send for list. WOOD BROTHERS, FISHKILL, N. Y.

SMILAX, from 2 inch pots \$1.50 per 100, \$14.00 per 1000.  
HYDRANGEA Oklawaha, from 3 inch pots \$4.00 per 100.  
GERANIUMS from 2 in. pots \$2.25 per 100; \$20 per 1000.  
" 3 in. pots, \$4.00 per 100, \$35 per 1000.  
" 4 in. pots, \$6.00 per 100, \$50 per 1000.  
Cash with the order. Send for samples.  
FRED. BOERNER, Cape May City, N. J.  
When writing mention the American Florist

Smilax... From 2 1/2 Inch Pots

At \$2.50 per 100; all fine healthy plants.

C. LONG, 207 1/2 MAIN STREET, Hornellsville, N. Y.

2000 Smilax

First-class 3-inch stock, \$2.50 per 100; \$20 per 1000.

THE E. HIPPARD CO., YOUNGSTOWN, OHIO.

25,000 Smilax

Extra strong plants out of 2 inch pots ready for immediate planting at the lowest price ever yet quoted. \$1.00 per 100; \$8.00 per 1000. Cash with order. Bear in mind this is strictly first-class stock and there is a large saving in freight, buying out of 2-inch pots. First come, first served.

South Side Floral Co., SPRINGFIELD, ILL.

It is good business policy to mention the

...American Florist

when you write to an advertiser.

# CHRYSANTHEMUMS.

Standard varieties, \$2.50 per 100. A list of varieties furnished on application.

ALSO Per 100

CYPERUS ALTERNIFOLIUS, 2½-inch pots, \$2.50

CYCLAMEN, white, pink, red, and white crimson eye, 2½-inch pots, 5.00

GREVILLEA ROBUSTA, 2.50

GERANIUMS, fine plants, 2½-inch pots, new and standard sorts (vars. on application) 2.50

ASPARAGUS PLUMOSUS NANUS, 3-in. pots, 8.00

" SPRENGERII, 2½-in. pots, 6.00

" TENUISSIMUS, 4-in. pots, 10.00

VINCA MAJOR VAR., 3-inch pots, 4.00

SMILAX, 2½-inch pots, 2.50

NATHAN SMITH & SON, Adrian, Mich.

# CHRYSANTHEMUMS!

All the very best commercial varieties, viz.:

Marquis de Montmort, Lady Fitzwigram, Bergmann, Merry Monarch, Glory of Pucelle, Robinson, Henderson, M. M. Johnson, Golden Trophy, D. Spaulding, Vivand-Morel, Mrs. Perrin, Ivory White, Ivory Pink, M. Bonaffon, Mayflower, Modesto, Jerome Jones, white, yellow and pink, Maud Dean, H. W. Riegan, Lottie Berry, Maud Adams, Emil Baetner, Gretchen Baetner. Stock unexcelled and very large quantity of it ready. Let us book order for now or future delivery. 2½ inch, \$3.00 per 100. Cuttings, rooted, \$2.00 per 100.

## POEHLMANN BROS.,

MORTON GROVE, Cook Co., ILL.

## ZIRNGIEBEL'S GIANT PANSIES.

THE MARKET AND FANCY STRAINS are known by all the florists as the Standard Varieties up-to-date.

FRESH SEED NOW READY in trade packages at ONE DOLLAR each.

DENYS ZIRNGIEBEL, Needham, Mass.

# CELERY PLANTS!

GOOD ONES.

GIANT PASCAL WHITE PLUME \$3.00 per 1000. Special prices on large lots.

S. T. DANLEY, - Macomb, Ill.

## VEGETABLE PLANTS.

CABBAGE—H Succession Flat Dutch, Autumn King, Drumhead, Savoy and other varieties.

CELERY—White Plume, Golden Self-Blanching, Giant Pascal, Golden Heart and other varieties.

TOMATO—Livingston's Stone, Paragon and other varieties. All above plants field-grown, 15c per 100; \$1.00 per 1000; \$8.50 per 10,000. If by mail add 10c per 100. Cash with order.

R. VINCENT, Jr., & SON, White Marsh, Md.

# CELERY PLANTS

White Plume, Golden Self Blanching and Giant Pascal.

Field-grown plants at \$1.00 per 1000; \$8.50 per 10,000. Cash with order. Samples free.

C. M. GROSSMAN, WOLCOTTVILLE, IND.

# Florists' Stock for Bedding

Alternanthera, Coleus, Geraniums, Pansies, Daisies, Verbeas, Fuchsias, Salvia, etc., etc. Write for prices. Florists when in Milwaukee are invited to look over our stock.

ARCHIE MIDDLEMASS, 1019 Forest Home Ave., MILWAUKEE, WIS.

## CARNATIONS.

F. DORNER & SONS CO. La Fayette, Ind.

Have you seen our 1898 Directory? It lists every florist in North America.

# HERR'S PANSIES

SEND FOR REASONS WHY THEY ARE THE BEST.

...SEED...

Ready now at \$1.50 per ¼ oz.

...PLANTS...

September to January: 75c per 100; \$4 per 1000.

...SMILAX...

Ready now, 75c per 100; \$5 per 1000.

Sample plants for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

# GERANIUMS.

NAMED.

3-inch, strong, in bloom, \$4.00 per 100.

# Chrysanthemums.

NAMED.

Strong, from soil, \$3.00 per 100; \$25 per 1000.

# KENTIA BELMOREANA.

Strong, stocky plants, 5 to 7 leaves, 20 to 30 inches high, \$12.00 to \$24.00 per dozen.

# KENTIA FORSTERIANA.

1 to 6 leaves, 24 to 30 inches high, \$12.00 to \$18.00 per dozen.

THE COTTAGE GARDENS, Queens, L. I.

Mention American Florist.

# Cannas.

A limited quantity of each, from 2½ and 3½-in. pots, to close out at \$3.00 per 100. Alphonse Bouvier, Austria, Italia, Discolor, Exp. Crampbel, J. D. Cabos, J. W. Elliott, Mrs. J. M. Samuels, Midway, Madam Crozy, Paul Marquant, P. J. Berckman, Sophie Buckner, Stella Kanst, Star of '91, E. R. Pierson, Madagascar, Mrs. F. L. Ames, Mme. A. Bouvier.

## VAUGHAN'S SEED STORE

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

# CANNAS—Last Call

A few Austria Cannas left; will close out at \$1.50 per 100; \$10.00 per 1000.

The Conard & Jones Co., WEST GROVE, PA.

Please Mention The American Florist.

# MARIE LOUISE VIOLETS.

Well-rooted Runners from open frames.

Strong and free from disease, \$2.00 per 100; \$18.00 per 1000.

E. M. & H. N. HOFFMAN, Elmira, N. Y.

# GERANIUMS

Fine stocky plants in bud and bloom. Bruant, Pilot, Emile de Girardin, Mrs. Hayes, Chevalier, 3½ and 4-inch pots, \$6.00 per 100. Gold Bronze, \$5.00.

YELLOW ALTERNANTHERA, 2½-inch, \$3.00 per 100.

BEGONIA VERNON, fine, 3-inch, \$6.00 per 100.

WILLIAMS BAY FLORAL CO., Williams Bay, Wis.

When writing mention American Florist.

# Geraniums

S. A. Nutt, 2½, strong, \$2.00  
 Mme. Bruant, 2½ " 3  
 Mixed new and standard varieties, " 2  
 50 new and standard vars. from 2½-in. pots, \$2 to \$4  
 ASPARAGUS Plumosus, 2 and 2½-in. \$4 & \$5  
 Sprengerii, 2½-in. " 5  
 CYPRESS (Umbrella Plant), 2½-in. " 3

CARL HAGENBURGER, Cash with order, WEST MENTOR, OHIO.

# FIELD GROWN CARNATIONS.

All the best varieties ready in September.  
 GEO. HANCOCK & SON, Grand Haven, Mich.

# ROEMER'S Superb Prize Pansies

The finest strain of Pansies in the World.

INTRODUCER AND GROWER OF ALL THE LEADING NOVELTIES.

Highest Award Inter. Exhibition at Hamburg, 1897. Catalogue free on application.

Fred. Roemer,

Seed Grower, - QUEDLINBURG, GERMANY.

# SEED! PANSIES SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt of 3000 seeds, \$1.00; ¼ oz., \$1.50; ½ oz., \$2.75; 1 oz., \$5.00. White, yellow, black and blue, in separate colors, \$1.00 per pkt. of 300 seeds.

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.

Grower of Extra Fine Pansies. Plants ready Sept. 15th.

# X PANSY X SEED

The finest of all the Giant flower-lug varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 350 seeds, \$1.00; half pkt., 50c. A pkt. New Forget-Me-Not, "Jewel," with every order.

JOHN F. RUPP, Shiremanstown, Pa.



# H. Wrede, LUNEBURG, GERMANY. PANSY SEED.

144 First Prizes, the highest awards World's Fair, and Hamburg, 1897. 1000 Seeds, finest mixed, 25c, 1 oz. " " \$3.75

Price List on application. Cash with order.

# FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON, Lock Box 1528, BOSTON, MASS. Correspondence solicited.

# PANSY SEED Large Flowering.

Do you want to grow the finest Pansies, if so, buy the JENNINGS STRAIN.

Always reliable. None better. Very finest mixed, \$1.00 per pkt. of 2500 seeds; \$8.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, \$1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, Southport, Conn. Grower of the Finest Pansies.

# SMILAX

2½-in., strong, \$2.50 per 100  
 3-in., strong, " " 3c  
 BOUVARDIA, 3-in., strong, " " 3c  
 SWAINSONA, strong, " " 3c

MCCREA & COLE, - Battle Creek, Mich.

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

Abyssinian Banana.

ED. AM. FLORIST:—I have an Abyssinian banana which stands about twelve feet high, but cannot make it bear. Can you suggest such a course of treatment as will enable me to make it fruit?  
P. N. H.

The Abyssinian banana, *Musa ensete*, is cultivated solely for the beauty of its foliage and not for its fruit, which is dry and not eatable as it contains only a few hard seeds which seldom ripen in this country even on old and large plants grown in palm houses or large conservatories where they may attain a height of twenty or more feet. If "P. N. H." has accommodations to keep his plant growing it will, in time, show a fruiting condition but its beauty will be at an end; the stem will soon decay and the plant die.

THIS IMPRINT ON AN ENGRAVING

# MANZ CHICAGO

IS A GUARANTEE OF SATISFACTORY QUALITY. . . .

Manz makes illustrations for this paper.

## THE Gardeners' Chronicle.

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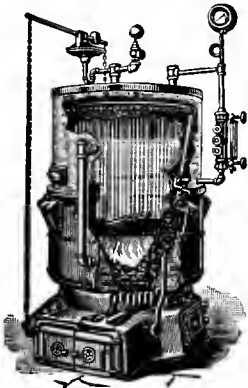


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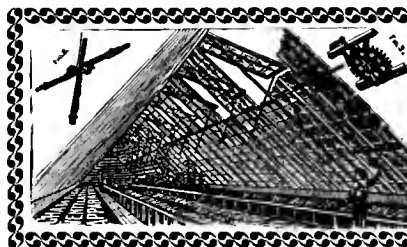
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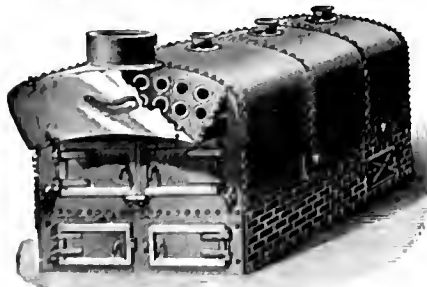
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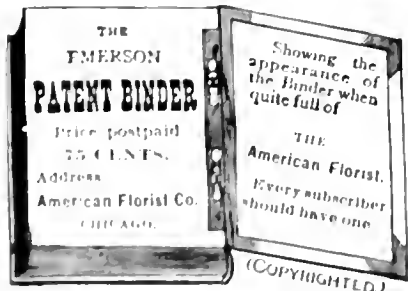
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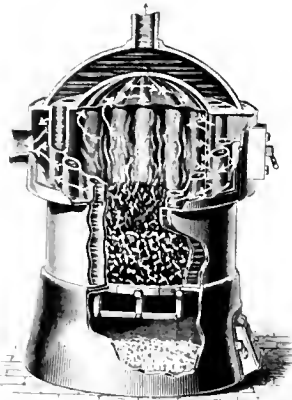


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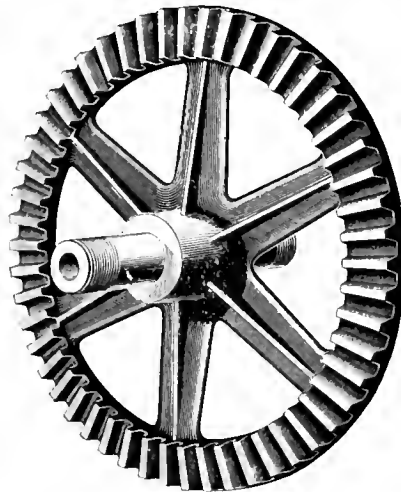
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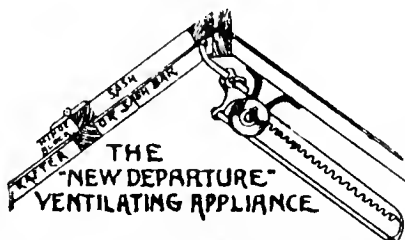
The terrific wind storm of July 4 brought sadness to Exeter in the news of the death of Hilding Karlson, of the firm of Hilliard & Karlson. Mr. Karlson was in the pavilion at Hampton Beach, where an entertainment was in progress. The building was demolished in the hurricane, and in the ruins Mr. Karlson was found dying. The funeral took place on Thursday at the Unitarian Church under the direction of the Masonic lodge. Mr. Karlson came here in May, 1896, having had a previous experience in the rose conservatories of E. M. Wood & Co. at Natick, Mass., and Bassett & Washburn at Chicago. He was an expert in the growing of American Beauty roses, and no finer Beauties and Meteors went to the Boston market than those he produced. He made many friends in Exeter during his two years' sojourn with us. He was a native of Sweden, where his father, mother, two sisters and a brother reside. So far as known he had no relatives in this country. He joined the S. A. F. last year at the Providence convention.

MARION, MASS.—Benj. Durfee, of Washington, D. C., is spending a few days here, recuperating.



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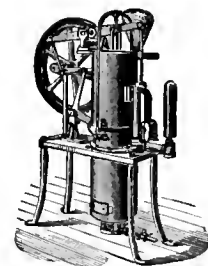
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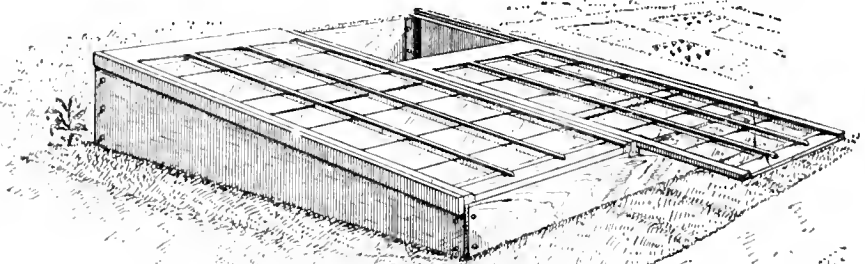
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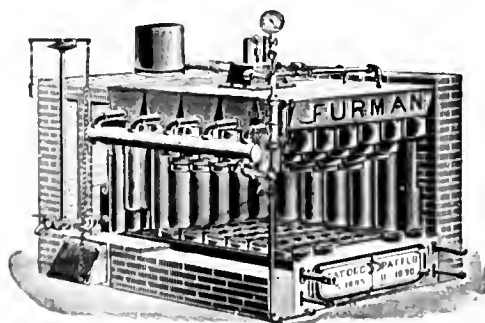
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UTICA, N. Y.—H. E. Day, formerly manager of the opera house, has purchased of Frank Riley the greenhouses at 801 Genesee street and will make a number of improvements in the place. Mr. Day has experience in the business.

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# THE AMERICAN FLORIST



*America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."*

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## THE AMERICAN FLORIST

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**SOCIETY OF AMERICAN FLORISTS AND  
ORNAMENTAL HORTICULTURISTS.**

OFFICERS—WM. F. GUDE, Washington, D. C., president;  
A. DONAGHUE, Omaha, Neb., vice-president;  
W. J. STEWART, 67 Bromfield St., Boston, Mass.,  
secretary; H. B. BEATTY, Oil City, Pa., treasurer.  
The fourteenth annual meeting will be held at Omaha,  
Neb., August 16-19, 1898.

**THE AMERICAN CARNATION SOCIETY.**  
Annual Convention at Philadelphia, February, 1899.  
ALBERT M. HERR, Lancaster Pa., Secretary.

**CHRYSANTHEMUM SOCIETY OF AMERICA.**  
Annual meeting at Omaha, Neb., August, 1898.  
ELMER D. SMITH, Adrian, Mich., secretary.

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ALBANY, N. Y.—Washington Park is making a beautiful display of agaves, of which there are, says Head-gardener Saunders, thirty-two varieties in the park. The finest specimen is Agave ferox.

### American Seed Growing.

#### SELECTION OF PLANTS FOR SEED BREEDING.

Every living organism has a character distinct in a greater or less degree from that of every other. This individuality is the outcome and expression of the balanced sum of the influences it has inherited from its ancestors, plus that of its environment, but in different individuals the influence of a common ancestor is not necessarily of the same numerical value in the making up of the sum of influence; it is rather as if the influence of each ancestor was represented by a digit and the sum of influence was expressed by these digits written in an order which varied in each case, the individual character depending upon the relative potency of the influences which go to make it up.

Of a lot of pigs or puppies born of the same parents and in the same litter one may be like the father, one like the mother another like some ancestor several generations back, and still another be a curious blending of the characteristics of the other three; again two of them may be so alike in appearance that they cannot easily be distinguished, but while all the progeny of one may be like itself, those of the other may bear little resemblance to their sire or to each other. This same law, or seeming lack of law, in hereditary influence which is so easily seen in animals exists just as truly in plants, though it is not so easily traced. Of eight peas from the same pod four may produce plants practically identical with the one on which the seed grew, while each of the others produce plants very unlike those from the first four, or each other, and of these all the seed of one may give plants like itself while that from the others produce plants of endless variety of form and color.

This varying degree of power which every living organism has to impress its characteristics on one or all of its descendants is correlated with life itself and is a part of its mystery; we do not understand it, nor the laws which govern it, we may never be able to, but we can and should recognize the fact of its existence and use it to our advantage. Though ability to reproduce itself is a quality which we cannot discern by our senses even if we bring to their aid the most powerful of microscopes or the most delicate chemical tests, it is just as much a characteristic as is color or form and is of the utmost importance in securing uniformity of product.

That prepotency can be fixed so as to become a characteristic of a strain of seed is certain. How it can be done may be best shown by an illustration. In the case of the successful breeding of a certain variety of corn which was referred to in a

previous article the seed breeder went into the field with a carefully prepared description of just what in every particular an ideal plant of the variety should be and how much variation from that ideal would be permissible in a breeding plant. He selected the ten plants which came the nearest to his description, and the seed of each was saved and the next spring planted separately, but in contiguous blocks. In the fall each lot was carefully examined plant by plant to ascertain in which one of them the largest proportion of the plants were within the prescribed limit of variation and from that lot the breeding plants for the next year were selected and this selection of breeders from the lot which furnished the most uniformly good product was continued from year to year. Generally, he could make a selection of better plants from all the blocks than could be found in the chosen one, and often a better ten could be found in a block where a smaller proportion of the plants were of the desired type, but the breeding was rigidly held to the line which showed by its uniformity that it had the greatest prepotency and in this way a wonderfully uniform stock was developed.

In the fourth or fifth year of this selection one lot showed a very remarkable ability to resist drought. The plants were fairly true to type and this new quality was so desirable that the seed breeder was tempted to save his breeders from that lot but resisted it and saved them according to rule, but he also saved the ten best plants from the new departure and planted the seed in a lot by itself. The result was that only a very few of the plants showed the drought resisting quality so noticeable the year before and all of the ten blocks varied more and had a smaller proportion of plants true to type than had any single lot since the first year. Had he yielded to the temptation to improve his type and taken his breeding stock from this lot he would have lost the good of four years selection. Doubtless by selecting the best plants from the lot which furnished the most drought resisting plants and continuing such selections for several years a new and valuable variety might have been established but, as we have said, the most important work of the seed breeder is the development of a stock which will come true to type rather than the production of a new sort, no matter how desirable, of which only a small proportion will come true. A long experience in seed growing convinces me that the formation of a clear and well defined idea of just what a plant of any variety should be, a rigid adherence to just that type in selection, and breeding only from those plants which

show a strong tendency to reproduce themselves is the only way to produce seed of the greatest value.

WILL W. TRACY.

#### INFERIORITY OF TYPE.

Mr. Tracy's articles on seed growing and plant breeding are extremely interesting, pointed and valuable. Personally I know very little about seed growing, and my observations on plant breeding are mostly from the work of other men. But the man who grows plants of any kind and pays close attention to the way in which they develop is bound to draw some rather positive, and, I believe, fairly accurate conclusions as to how they are bred.

Now there are two things for which the seed grower and plant breeder may strive—new forms and purity of old forms. In other words he may originate new varieties, or he may fix them after they are originated. I say he may fix them, for unfortunately he does not often do that. While there is a very laudable and effective activity in this country in the production of new varieties, there seems to be an unfortunate insufficiency of effort in fixing good types, especially the more highly bred and persistently variable forms. It thus occurs that while we have an abundance of new varieties which, when true to type, are very satisfactory and very creditable to the originators, a very large number of them are so variable and unstable that they can not be depended on, especially when they fall into unskillful hands or receive indifferent cultivation. They do not hold to their fancy characters, but break up and revert to several very inferior types.

To be sure there is in this no moral misdemeanor on the part of the seed grower. It is merely a question of business. The seed buyers seem willing to pay a great deal more for new varieties than for well fixed varieties, and as the former require less work in their production, no one can blame the plant breeder for working merely for new types. But seed buyers make a very serious mistake in taking this attitude. Take muskmelons for example. A grower is much better off to grow a well fixed strain of Hackensack or Jenny Lind than to spend his time on some much fancier variety which, however, shows only fifty to sixty per cent of the highly bred type, with forty to fifty per cent of mediocre, ununiform reversions. The same thing is true of sweet peas, asters, zinnias and all flowering plants where the production of new varieties has come to be a commercial object. The grower will always get more satisfaction out of a good variety which runs uniformly true to type than he will out of fancier but unmixed varieties.

The fact is the seed buying public in America has not yet decided to pay the price for seeds true to type. Even after they shall have progressed so far it will be necessary still to determine what are proper types of standard old and new varieties, and then to fix these types by years of careful selection as described by Mr. Tracy. Here is an example of present conditions. We have been growing this year the variety of Lobbl's nasturtium known as Asa Gray. We had it from two leading American seed men. One describes it as "pale sulphur yellow, very delicate," the other as "pale white, blotched sulphur maroon." Here are expressed two widely different ideas of what Asa Gray nasturtium ought to be. When the plants blossomed last

lots were equally mixed with five or six separate forms, some cream white, others showing a distinct tinge of buttercup yellow, others blotched with a very light scarlet, etc. I have no doubt that the cream white is the proper type for Asa Gray, but not more than one-fourth of our plants show that color, and one of the seed dealers did not even think that to be the type.

What I started out to say more briefly is just this: It seems to me that we could better spend a greater proportion of effort in fixing the varieties which we now have, and give a little less to the production of new ones.

Burlington, Vt. F. A. WAUGH.

#### FIXING VARIETIES.

The papers on "Seed Growing in America" by Prof. Tracy, of Detroit, have given me much pleasure and profit in the reading. I am unable to speak from personal experience upon the vegetable side of the subject, although I have had some opportunity of looking into the methods employed in the seed pea growing territory of Canada. Here the trade amounted to nearly \$200,000 annually till the McKinley tariff shut off the American market to a large extent. A number of new varieties of peas have originated in this locality and there are a few in process of development, in other words, being "fixed."

It seems to me that one of the weak points in connection with variety making in vegetables is that the variety is placed on the market before the type is fixed, in the hurry of the producer to get to the front. This defect in American seed growing is no doubt also due, as pointed out by Prof. Tracy, to the lack of a clear conception of the ideal type. In some of the newer varieties of beets and cabbages it is not difficult to select half a dozen types from a row thirty feet long. The process of selection has not been carried on long enough and too little regard has been paid to the characteristics of the ideal. As a rule the seed grower depends upon sports or variants for his working stock. In selecting after this method the mental picture—as it very often is—may change slightly from year to year; and there is less chance for wide comparison at the beginning, than there is if crossed seeds are sown. In the case of spring wheat I have watched the behavior of a number of crosses between Ladoga and Red Fife, the former an early Russian variety, and have seen a fixed type intermediate in time of ripening produced in eight years by rigid selection. When a bearded wheat was used as the female and a beardless variety as the male, the larger proportion of the first progeny were bearded, thus following the older and more stable type. In the second sowings, as might be expected, both types sport freely, and the



VASE OF IRIS KAMPFERII



IRIS KÄMPFERI AT DREER'S NURSERY, RIVERTON, N. J.

work of fixation is in consequence comparatively slow.

As Prof. Tracy says, in substance, the more difference in the parents the greater the number of types will be produced in the progeny and the slower will be the work of selection. For this reason proportionately fewer beneficial results have flowed from violent crosses than have attended experiments carried on within narrower confines. It is true that in fruits the California wizard, Burbank, has obtained wonderful results from hybridization; but this is probably due to the marvellously extended range of his operations.

Ithaca, N. Y.

JOHN CRAIG.

#### Codonopsis Clematidea.

It is surprising that this deserving plant has not found its way long ago into collections of hardy plants. It is very rarely mentioned in catalogues and little has ever been said about its unquestionable value as a border plant. Like the *Wahlenbergias*, it has a thick, fleshy root, from which the eyes start out in the spring. Young plants do not grow very strong for a year or two; they remain dwarf and decumbent, though they bloom persistently even when small; but when once well established the growth is much more robust, the stems being able to support themselves in a more upright position, and more of them are produced from each root. The leaves are very neat, oval oblong, of a glaucous green, about an inch long and rather closely arranged along

the stem. The flowers are produced on the tips of the many slender axillary branches for a long time in midsummer, and resemble those of an ordinary drooping campanula; they are about an inch long and measure about the same across the open part. The color is white, slightly tinged with pale blue, and the bells have a distinct, well defined, star-shaped blackish purple blotch on the inner side at the base of the stout pistil. Along the stronger growth of the older plants, two feet or over in height, the side branches are produced freely, almost at every joint from the ground up to the very tip, and each branch or branchlet is adorned with the dainty bells, which, on their slender support, keep in a constant motion in the slightest breeze. Division is the best way to increase the stock, but seed sowing may be resorted to if it is obtainable, though it takes a number of years for the seedlings to develop into strong specimens, while division usually gives quicker and more satisfactory results. As to the hardiness of the plant, I may say that we never lost one from the effects of frost. Even in snowless winters, with some of the carelessly planted crowns fully exposed to the action of the weather, we could not notice the slightest injury, but it would not hurt them to receive a liberal covering of manure every winter, this material to be forked in between the plants when spring arrives. It delights in rich soil and the growth is stronger there, though we have no trouble and can make it live and flourish even in dry ground by merely taking the precaution to plant a

little deeper. An irregular patch in the border, planted among early flowering bulbs, makes quite an acceptable display in summer, and the plants hide the yellow or decaying foliage of their companions effectively, without interfering with the spring show, for they start rather late.

J. B. KELLER.

#### The Japanese Iris.

These beautiful flowers are now attracting considerable attention and will undoubtedly be largely planted for outdoor decoration. While not new the beauties of the *Kämpferi* types are not known as their very showy and exquisitely lovely blossoms demand they should be. They seem to require no special culture, growing and flowering profusely along with other lawn and garden plants. For cut flower decorations they are very effective for a short time, but their period of usefulness closes with the day as the individual blossom lasts only till sundown. K.

#### Chrysanthemum Notes.

One of the most important things in caring for the chrysanthemum at this season is to keep them free of black aphid and greenfly. The hot weather we are having now making it impossible to fumigate, we have to resort to spraying with tobacco extract which we find, when used with a little judgment and more as a preventive than as a cure, to do the work well. We use about a wine glass full of the extract in an ordinary bucket

full of warm water, allowing it to stand for a few hours before applying with a sprayer late in the afternoon after the sun has left the glass.

Some varieties are more difficult than others to rid of insects and once the pests get a good foothold it is a hard matter to dislodge them. We have found Major Bonnafon to be particularly subject to greenfly, which seems to thrive well on the young, curly foliage, the formation being such that the insects are sometimes not noticed unless the plants are examined closely. Grasshoppers are beginning to get troublesome and the only thing to do is to catch and kill them the same as with caterpillars which, if not looked after, will spoil the foliage of a plant in very little time.

Specimen plants should be given every encouragement to keep them growing healthfully. Ample syringing two or three times a day is what they delight in, and see that they never want for water. It is time to stop pinching back specimens

of the late varieties or they will not be ready for show time. Early varieties can go one or two weeks longer.

Now that the specimens are in their flowering pots they should have a few stakes to spread upon and to protect the branches. Young stock intended for single stemmed pot plants should be removed from the sand as soon as rooted and shaded for a few days, after which they should be placed as near the glass as is practicable, as they need all the light possible and plenty of ventilation. They should be shifted as quickly as they require it so as to give them ample time to become well rooted in their flowering pots before the time comes for them to set their buds. This will enable them to stand feeding better and hence give more pleasing results. C. W. JONSSON.

#### Begonia Gloire de Sceaux.

The begonia herewith figured is one of the most useful sorts for spring and win-

ter flowering. The stems are stout, erect and from one to three feet high, with leaves dark green, tinged reddish beneath and from six to eight inches in width. Flowers pale pink and one and a half inches broad.

Plants two years old are best for decorative purposes, as they then send out numerous flowering shoots from such portions of the previous year's stems as have been retained. Older plants are not reliable. In propagating I prefer to take the cuttings in spring, if they are obtainable. These will make nice specimens the following spring. Usually, however, it is impossible to procure good material for cuttings until the old plants are cut down later in the year, and when started so late they seldom make fully developed specimens before the second year.

For this and most other winter-flowering begonias I use a rather coarse compost made up of good loam, leaf mold, cow manure and sand, two parts loam to one part each of the other constituents, with the addition of a small quantity of charcoal. Good drainage is very necessary, and during the winter months the plants should be kept in a temperature of 60.

ROBERT SHORE.

#### Carnations.

A drought extending over something like eight weeks gives us an opportunity to learn a few lessons from the field. The first of these is to plant the carnations early enough in the spring to get the benefit of the spring rains in starting. Carnations planted in this section during April and the early part of May are now fairly good sized plants and give promise of making fine stock by fall. Of the stock planted after May 10, fully one-half is now dead and the other half in such shape that even with the best sort of a season from now on they can not make plants such as a good grower should have for his houses by September 1.

Another thing brought home with a good deal of force by a protracted drought is the advantage derived from having the plants free from insects when they are transferred to the field. There is nothing like a prolonged period of dry weather for the increase of all sorts of insect pests, and the plants have a hard enough struggle against the drought without having to battle for life with all manner of vermin. And yet the dry spell has its redeeming feature in the elimination of rust and spot where the plants are affected. It even seems to almost eradicate bacteria, but not so completely as the other two diseases. Rust is practically destroyed by dry, hot weather; between the sun, wind and the radiation of heat from the surface of the ground, it quietly takes its departure. Just why this should be so remains unsolved, as under practically the same conditions inside the houses, and at the time it is leaving the plants outside, this disease spreads on the indoor stock. That it does leave the plants in the field is not the supposition of a season but an actual fact of three years' careful observation.

Perhaps the most notable lesson to be learned from the field is the difference between cuttings grown under different conditions before planting them out. A cutting taken from a plant that has been forced to its utmost limit to produce fine flowers—this forcing consisting of an increase of temperature or the application of all the manure the plant can stand, either dry or liquid—will, during a drought, throw out curled and deformed shoots, the lower leaves of which turn



BEGONIA GLOIRE DE SCEAUX



CENTURY CLUB PALM GARDEN, CLEVELAND, O.  
DECORATIONS BY ELLA GRANT WILSON

yellow and eventually drop off, giving the plant a miserable appearance, as well as seriously affecting its product of bloom the following winter. A cutting propagated from a plant that is just right for a parent in all particulars and planted in soil too heavily fertilized, so as to present a fine appearance when sold, will go the same way if it strikes a drought during the summer. The cutting taken from a plant grown in a rather cool temperature and in soil only moderately rich, and after it is rooted allowed to grow without any undue forcing, either by heat or extra manure, is the cutting that will stand the drought and be in shape to give you results next winter. Its growth will be clean and healthy from root to tip, and when the rain does come it is ready to go ahead without having a lot of diseased and crippled parts to doctor up.

There is only one conclusion to be derived from this, viz., that the growing of cuttings and the growing of fine flowers are two separate and distinct branches of carnation culture. One may get along by trying to do both, but when separated, the result will be found in greater progress, and the day is not far distant when the successful grower would as soon think of taking cuttings from his flowering stock as from a plant filled with rust, bacteria and spot. Other lessons can be learned from the field if we use our eyes and judgment. If we do not love our carnations well enough to watch them in the summer as well as in the winter, we do not deserve success, and the sooner we get into some other business the better it will be for ourselves and the carnation.

ALBERT M. HERR.

#### For Dinners and Weddings.

The accompanying illustrations show the decorative abilities of Ella Grant Wilson, "Floral Artist," of Cleveland, Ohio. The Century Club is Cleveland's leading social organization and the Palm Garden, or dining room, is upon the fifteenth floor of a business block, com-

manding a magnificent view of Lake Erie. The large room is so divided by arches heavily draped, as shown in the picture, that a number of sequestered nooks are the result. The arches are all covered with prepared ground pine, which will retain its color and shape for an entire season. In a number of places where it was impracticable to employ living plants prepared palms were used, but in all the numerous vases are fine

genuine specimens of latanias; dracenas, arecas and Cycas revoluta, two very large vases containing excellent variegated century plants. Several of the semi-private corners are made distinctive by decorations of a particular flower, Crimson Ramblers being employed in one, nasturtiums in another, and so on.

An octagonal bay window formed the base of operations for the wedding decoration shown in the second illustration. The ceiling is heavily festooned with asparagus with a back-ground of fluted pink cheese cloth. Standards in each corner, draped with white satin, support flat baskets of Bride roses and asparagus grown on trellises, palms and ferns fill in the base. The mantle is also decorated with the same plants and in the center of the bay swings the inevitable wedding bell, except that in this instance it is a chime of three bells of white roses entwined with a garland of Brides and a lover's knot of white ribbon. A shower wreath is pendant from the chandelier. This excellent decoration, and it was of equal luxuriance in the dining room, was merely for the wedding reception, the church decorations having been even more elaborate. A bank of tall palms and tree ferns filled the entire pulpit platform to a height of nearly twenty feet and four arches of white roses and smilax formed the bower in which the ceremony was performed.

#### Society of American Florists.

##### PRELIMINARY PROGRAMME.

The fourteenth annual meeting and exhibition of requisites for, and products of, the greenhouse and garden will be held at the First Congregational church, corner Nineteenth and Davenport streets, Omaha, Neb., August 16, 17, 18 and 19, 1898. The following is the programme:

FIRST DAY—OPENING SESSION, 10:30 A. M.

Address of Welcome.  
Response.



WEDDING DECORATION BY ELLA GRANT WILSON, CLEVELAND, O.

President Gude's address.  
Reports—Secretary, Treasurer, State Vice-Presidents, Standing Committees, Special Committees.

Appointment of Exhibition Judges.  
Miscellaneous business.  
On the afternoon of the first day the Judges will examine, and prepare their reports upon the trade exhibition.

#### FIRST DAY—EVENING.

President's Reception, in the church parlors.

SECOND DAY, MORNING SESSION, 10 O'CLOCK.

Reports of Exhibition Judges.  
Action on proposed amendment to by-laws:

Action on recommendations of Executive Committee to establish permanent departments of Credit Information, Co-operative Purchase, Claims, Arbitration and Legislation.

Selection of place of meeting for 1899.  
Nomination of officers.

The Question Box.

Sessions of the Chrysanthemum Society of America (2 p. m.), Florists' Hail Association (3 p. m.) and American Carnation Society (4 p. m.) will be held on Wednesday afternoon.

SECOND DAY, EVENING SESSION, 8 O'CLOCK.

A paper, subject, "Trade Exhibitions; their value to the florists' business," E. H. Cushman, Euclid, O.

THIRD DAY, MORNING SESSION, 10 O'CLOCK.

Discussion, subject, "American Grown Bulbs." Opened with a paper by Mr. M. L. Kains, of Agricultural Department, Washington, D. C.

Election of officers.

The Question Box.

#### EVENING SESSION, 8 O'CLOCK.

Essay, "The Comparative Effect of Improvement in Varieties and Improvement in Cultural Methods," E. Gurney Hill.

Essay, "Grafted Roses for Growing Under Glass."

FRIDAY, AUGUST 19, 1898.

The fourth day will be devoted to visiting and sight seeing at the Exposition and such other recreation as may be provided or suggested by the local members of the Society.

#### THE QUESTION BOX.

The Question Box will be, as heretofore, an interesting feature of the meetings. Members are requested to forward inquiries intended for the Box to the Secretary previous to the meeting, when practicable, so that they may appear in the regular programme.

#### PROPOSED AMENDMENT.

Mr. Lawrence Cotter proposes the following amendment to the by-laws:

To amend clauses 2 and 3 of Section VI relative to nominations and elections by the addition of the following words: Provided, however, that any name, in order to be thus officially declared for any office, must have received at least ten per cent of the total vote cast, so that the clauses 2 and 3 shall read as follows:

2. Members shall, in the blank spaces so provided, insert the names of their candidates for the designated offices. These ballots shall be collected by tellers duly appointed by the Chair, the results tabulated in the presence of the members of the Executive Committee who may be present, and announced by the Secretary, the two nominees receiving the highest number of votes for each office being *officially declared* the candidates for election *to the ensuing year, provided, however, that any name, in order to be thus offi-*

*cially declared for any office, must have received at least ten per cent of the total vote cast.*

3. Should either of the two nominees receiving the highest number of votes decline to stand as a candidate, the nominee receiving the next highest number of votes, *if not less than ten per cent of the total vote cast*, shall be declared a candidate.

#### NEW SPECIAL DEPARTMENTS.

The Executive Committee at its meeting in Washington, D. C., March 15 and 16, 1898, voted to recommend the establishment of new departments under the supervision of the Society, as follows:

1. A Department of Credit Information, whose duty it shall be to furnish information concerning the business standing of persons in the trade; said information to be furnished at \$5 per annum and to members of the S. A. F. at \$1 per annum. To be in charge of a committee of three, appointed by the President, subject to the approval of the Executive Committee.

2. A Department of Co-operative Purchase, the object of which will be to secure for members of the Society the low prices on various greenhouse supplies, which may be obtained through co-operative purchase in large quantities. To be managed by a committee of three, to be appointed by the President, subject to approval of the Executive Committee.

3. A Legislative Department, whose duty it shall be to discourage adverse legislation, state or national, and encourage legislation favorable to the trade. To be in charge of a committee of three, appointed by the President, subject to the approval of the Executive Committee.

4. An Arbitration Department, whose duty it shall be to promote the amicable adjustment of controversies between members, when requested by parties interested to do so. To be in charge of a committee of five, appointed by the President, subject to the approval of the Executive Committee.

5. A Claim Department, whose duty it shall be to look after the adjustment of claims of members against transportation companies. To be in charge of a committee of three, appointed by the President, subject to the approval of the Executive Committee.

#### THE TRADE EXHIBITION.

This will be a grand exposition of the latest improvements in all requisites for the greenhouse and other departments of the florists' business, models of greenhouses and apparatus, new and rare plants, garden implements, bulbs, seeds and supplies. The exhibition hall is in the basement of the church in which the sessions of the convention will be held. A very large amount of space has already been rented, and intending exhibitors should make application at once to the superintendent for such accommodations as they require.

Revised rules relative to the judges' duties and method of making awards follow.

#### RULES OF MANAGEMENT.

1. The Society of American Florists shall, through the Executive Committee, control all features of the trade exhibition.

2. There shall be appointed annually at the winter meeting of the Executive Committee a superintendent of exhibits. The vice-president of the S. A. F. or the local organization in the place where the convention of the current year is to be held shall be invited to recommend such superintendent, for election by the Executive Committee as aforesaid. Said superintendent shall have general charge of all details of the annual exhibition, and shall be under every-day full control and control for the convention. He shall receive compensation for past, and assign the same in the order in which they are received by him. He

shall provide and arrange all necessary tables and staging. He shall furnish the Secretary as full a list as possible of the trade exhibitors by 1 p. m. on the day of opening the convention, said list to be for the use of the judges. He shall also furnish the Secretary with a full report of receipts, expenditures and other details of the exhibition, the same to be embodied in the annual report of the Society.

3. Exhibition space shall be designated in square feet, at a maximum charge of 25 cents per foot for all space less than 12 feet; more than 12 feet and less than 50 feet, 21 cents; more than 50 feet and less than 100 feet, 19 cents; 100 feet or more, 18 cents; no entry to be accepted for less than \$2. No charge shall be made for plants and flowers entered for exhibition purposes only.

4. Wall space shall be measured four feet in height, and when practicable a table not less than one foot wide shall be added gratis, if desired and applied for with entry.

5. Exhibition classes to be arranged as follows: A—Plants; B—Cut Blooms; C—Boilers and Heating Apparatus; D—Greenhouse Appliances, including Flower Pots; E—Florists' Supplies, including Fancy Earthenware; F—Bulbs and Seeds; G—Miscellaneous.

6. Exhibitors may group their goods together, excepting in the case of living plants and cut flowers. These shall be shown in a separate department from the other classes.

7. Judges shall be appointed by the president and secretary at least a month before the exhibition. The president and secretary may appoint substitutes in place of judges who may be absent.

8. Judges shall examine all exhibits and make mention of such as are in their opinion of special value, and shall only award certificates to new plants, improved appliances and approved florists' requisites, not previously exhibited before the S. A. F. They shall be governed by the merits of the articles exhibited, and shall state in their report on what special points of excellence awards were based.

9. In case any article or device has received an award at a previous S. A. F. exhibition, awards shall cover subsequent improvements only.

10. No award shall be made covering the quality of seeds, fertilizers, paints and other articles of such nature that an intelligent opinion cannot be had without a practical test.

11. The exhibition shall be closed between the hours of 2 and 4 p. m. on the first day of the convention, during which time the judges shall pass on the exhibits, and they shall report promptly to the Secretary on the same day. Exhibitors shall be excluded from the hall while the judges are at work.

Exhibits not in position before 1 p. m. on the first day of the convention may be excluded from the reports of awards.

12. Doors of exhibition shall be closed five minutes before the opening hour of each session of the Society, and remain closed during the session.

13. Exhibition to be open not less than two hours before the opening of the morning session, to remain open during the day, except during the session hours, as provided in Sec. 13, and to remain open one hour after the closing of the evening session.

14. No article exhibited shall be removed until after the close of the last day's session, except by permission of the superintendent of exhibition.

15. All adjustments not covered by rules or published action of the Executive Committee shall be referred to that committee.

#### A SPECIAL MEDAL COMPETITION.

The Society of American Florists offers six silver and six bronze medals, to be competed for at Omaha, as per the following schedule:

Cannas—display of 12 varieties in pots, not to exceed 25 plants in all.

Caladiums—12 fancy foliage varieties in pots, one plant of each.

Display of American grown bulbs.

Mantel decoration, of plants or flowers or both, to be kept in good condition throughout the exhibition.

The silver medals to be awarded for the best in each of the above classes, and the bronze medals for the second best. One silver and one bronze medal additional to be left to the discretion of the committee to be awarded to any display of plants showing advancement in culture or of special value to the trade. No awards shall be made in any class where, in the opinion of the committee, the quality of the exhibit does not justify it. This department will be kept entirely distinct and separate from the trade exhibition. No entry fee or charge for space will be required, and no advertisement or card of a business nature shall be used. Entries should be made with the Secretary of the S. A. F.

N. B. All persons winning any awards of value at the exhibition of the S. A. F., if not already members of the Society, must so qualify themselves before receiving such award.

#### AN EXHIBITION OF PHOTOGRAPHS.

All persons having photographs of floral decorations and design work are invited to send same to the convention hall, in care of the secretary, where they will be displayed on exhibition, and a competent committee will be appointed to examine and award such recognition as the quality of the work represented may justify.

#### THE BOWLING CONTEST.

Arrangements are being perfected by the local club to make this feature as interesting and exciting as similar tournaments in the past have been. Particulars as to location, hour and trophies will appear in due season.

#### HOTEL ACCOMMODATIONS.

Following is a list of Omaha hotels convenient to the convention hall.

HOTEL.	CAPACITY.	AMERICAN PLAN.	EUROPEAN PLAN.
The Millard, 13th and Douglas.	100	\$3.00 up.	\$1.50 up.
Arcade Hotel, 13th and Douglas.	100	\$2.00	
Hotel Dellone, 14th and Capitol av.	450	\$2.00 up.	\$1.00 up.
The New Mercer, 12th and Howard.	300	\$2.00-2.50	\$1.00-1.50
Hotel Barker, 13th and Jones.	100	\$1.50	\$1.00
The Midland, 16th and Chicago.	150	\$1.50-2.00	\$.50-1.00
Drexel Hotel, 16th and Webster.	100	\$—	\$.75 up.
Murray Hotel, 14th and Harney.	100	\$2.50 up.	
Victoria Hotel, Dodge St. nr. 13th.	50	\$1.50 up.	
Dodge European (gentlemen only), 101-111 So. 13th.	40		\$1.00
Hotel Vendome, 414 So. 13th.	40	\$1.00-1.50	
The Windsor, 10th and Jackson.	50	\$2.00	
Hotel Garfield, 1515 Howard.	200		\$.25 up.
The Brunswick, 16th and Jackson.	200	\$2.00-3.00	\$1.00 up.

#### New York.

LIGHT BUSINESS AND SLOW COLLECTIONS.—W. A. MANDA WINS A SUIT.—FLEISCHMAN'S NEW BRANCH OFFICE.—BOGART'S EXCURSION.

Very light receipts and no buyers is the record of the wholesale marts at present. In the retail stores an unbroken stillness prevails, and the few who have not gone away for a brief recreation find time heavy on their hands. The selling of flowers is a secondary consideration with the wholesalers; collecting overdue accounts is a more important duty. Judging by what one hears in wholesale circles the credit business is rather overdone here. The New York Cut Flower Co. has taken the initiative in limiting the amount of credit which customers may enjoy, and in following up collections closely. It would be a most sensible move if the wholesalers of 28th street and other localities were to follow this good example and adopt a policy that would ensure prompt settlements. Long credits are the worst feature of the flower trade to-day.

W. A. Manda has just received news that a verdict in his favor has been rendered against Ludwig Moller, editor of the *Garten Zeitung*, of Erfurt, Germany, for certain alleged libelous statements that were published in that journal at the time of opening of the Hamburg exhibition. The sentence imposed was a fine and imprisonment in addition to 1000

marks damages and a retraction of the offensive allegations.

Fleischman has opened a down-town branch in the Arcade, 71 Broadway, corner of Rector street. This establishment is fitted up on a scale worthy of the high class office trade which is its objective point.

The popular *Leslie's Weekly* for July 7, contains a picture of Willie Tiffany in a photograph of Troop K, Roosevelt's Rough Riders. The picture was taken before Santiago.

Bogart's employees had their annual fishing excursion on July 14. A big crowd participated, and all enjoyed themselves. The steamer Isabelle never carried a happier party.

H. A. Siebrecht has gone to Bar Harbor.

#### Chicago.

A SCARCITY OF ROSES AND OF ORDERS.—TRADE CONDITIONS.—FLORISTS' CLUB MAKES ITS FIRST SUMMER EXPEDITION.—NEXT TRIP TO BE TO REINBERG BROTHERS' PLACE.—NOTES AND COMMENTS.

There are still two great scarcities in the market—scarcity of roses and scarcity of orders. A few roses are being cut from young plants. Brides and Bridesmaids are small and short-stemmed. Meteors, though small, are of very good color. Beauties from young stock are improving in quality. Carnations are coming in freely from outside grown plants; the crop of colored ones is shortening somewhat, but there are still plenty for the demand. Sweet peas are in profusion, and good ones sell at from 4 cents to 8 cents per hundred.

The Florists' Club visited the home of Mr. and Mrs. Henry Hilmers at Blue Island last Sunday, and one of the largest crowds which the club has ever turned out for a similar excursion responded to the call for this, the first pleasure trip of the season. There was an unusually large number of ladies present. About an hour and a half was devoted to the inspection of Mr. Hilmers' houses, in which the visitors found little to criticize, but much to praise. The Hilmers brothers grow a wide variety of stock, shrubbery, trees, very fine *Hydrangea grandiflora* for cut flowers, herbaceous plants, irises, perennials, *Coreopsis lanceolata*, delphiniums, centaurea and all the marketable roses, etc. Several of the rose houses had just been replanted, but there are two houses of Brides and Bridesmaids in which the last year's plants are in fine condition and producing excellent blooms. Later in the afternoon an exceptionally tempting lunch was served upon the lawn. After Edgar Sanders had, on behalf of the club, thanked the host and hostess for the entertainment, carriages were taken for a trip to the establishment of Heim Bros., half a mile away, where many things were found to repay the party for the trip.

The next outing will be to the establishment of Reinberg Bros., the largest place of its kind in the country, on July 24. The party will take the Northwestern train at 1 p. m., arriving at Summerdale at 1:20. The Reinbergs will make this an occasion well worth every member's participation.

The Messrs. Freidman & Allen have withdrawn their suit for \$200 against the millionaire managers of the great horse show, the wealthy gentlemen in question agreeing to pay \$25 and the plaintiff's costs and attorney fees. The flowers over which the dispute arose were used to decorate the stalls of Joe Patchen and Star Pointer.

The retail florists have followed the lead of the wholesalers, the down-town dealers having agreed to close their stores at 6 o'clock each evening until September 5.

E. Hobbs, the well-known Indiana avenue retailer, left Thursday for a two months' visit with his mother at Bristol, England. Mr. Hobbs has been in the business here for nearly twenty-five years.

Ed. Winterson has concluded that, with the present retail trade conditions, he can find all the rest he wants at his store, and has returned from his Wisconsin cycling trip, leaving C. S. Stewart to continue his outing.

Adolph Bruns, 26 years of age, employed by his brother; H. N. Bruns, 690 West Van Buren street, shot himself Wednesday. He suicided because Alma Fuercks refused his offer of marriage.

August Landahl, of Wm. Landahl & Sons, is spending three weeks in northern Wisconsin.

Visitors: J. J. Hess, of Hess & Swoboda, Omaha, Neb.; Mr. and Mrs. W. L. Morris, Des Moines, Ia.; Victor Wayman, Madison, Wis.; J. W. Hulsizer, Grinnell, Ia.; Carl Marx, Adrian, Mich.

#### Philadelphia.

S. S. PENNOCK VISITS CARNATION GROWERS.—NEW BEAUTIES IN SIGHT.—WALKER AND THE BIKE.—HEACOCK USES SHADING CLOTH EFFECTIVELY.—KIFT'S EXPERIENCE IN SEARCH OF BERMUDA LILIES.—EUROPEAN TRAVELERS.—NOTES.

S. S. Pennock has just returned from a trip in the carnation belt of Chester county, and through a part of Lancaster county where there are a number of cultivators of the flower. He reports the growers in good spirits and apparently well pleased with the business of the past season; in fact the feeling is better now than a year ago. Considerable additions are being made in many places and not a few new establishments are being built. Mushrooms and tomatoes are being grown quite successfully by many as a side crop in the same house with carnations.

American Beauties from houses planted for summer cutting will be ready about the first of August and will prove a welcome addition to the very poor assortment now to be seen in the refrigerators of the storekeepers.

John Walker is learning to ride the "bike" and has his hands full these evenings. He ran into an organ grinder and his monkey one evening last week and there was a lively time for awhile.

Joseph Heacock says he finished planting two weeks earlier this year than last, commencing at the same date, and did the work with two less men. He attributes this quick work to the use of the shading cloth on the outside of the houses which were being operated in and says it has proved to be a labor saver as well as a great comfort to his men, who generally considered this the hardest and most exhausting job of the year.

The story in last week's *FLORIST* of the Graveyard brand of the Bermuda lily, reminds us of an incident in the first shipment of the bulbs to this country. Jos. Kift, Jr., was the first commercial florist to discover the home of the lily and in endeavoring to secure the bulbs he had a varied experience. The lilies did not grow wild and were only to be found in private gardens whose owners were loth to part with them. In order to increase his stock he offered to buy at a certain price all the bulbs brought to him and some of the idle darkies took advantage of the offer. Soon some one discovered that the

bishop's lot in the cemetery had been visited and that baskets of the lilies had been carried away. Mr. Kift was arrested for the theft but soon proved his innocence. However, he was very careful of his after purchases.

Chas. Sims sailed for Europe by the steamship *Etruria* for a six week's sojourn, mostly in Scotland. Mrs. Abram Knowles and family went abroad by the steamer *Waesland*, sailing from this city July 9. They expect to be gone about three months, spending most of their time in England.

Mr. and Mrs. Robert Craig and Mr. and Mrs. Wm. K. Harris have been spending a few days at Asbury Park. Mr. Harris says he can be counted on for Omaha if his health will permit him to make the trip, and those western bowlers must not forget his 240 point game at St. Louis. It was the high score of the tournament. K.

#### Boston.

ROSES ARE POOR.—CARNATIONS ABUNDANT AND LITTLE DOING.—SATURDAY EXHIBITION OF HOLLYHOCKS.—DEATH OF PHILIP WIELAND.—BRIEF NOTES.

Many rose growers have thrown out their stock and have begun replanting. This reduces the quantity of flowers on the market considerably, and of the stock left little can be said in approval, for much of it is about as rubbishy as it can be. If one wanted any number of really first class roses he would find great difficulty in locating them. There are but few such calls, however, and the supply, such as it is, mostly finds its way into the hands of the street fakirs, who manage to get something out of it, a feat which would be impossible with a store florist. Carnations are still in supply much too heavy for the call. They are good for the season and the weather, but bring very little in the market, as there is practically nothing going on. Auratum lilies, irises, gladioli and other outdoor flowers are abundant. Lily of the valley finds a very poor market at present, and this is also true of pink pond lilies.

Saturday, July 9, was hollyhock day at Horticultural Hall, but hollyhocks might as well be dropped, it seems, from the schedule. A few years ago the displays were superb; we can raise them no more until some one discovers a way to master the hollyhock disease. The show of wild flowers was good, although Mrs. P. D. Richards, who has for so many years held foremost place in this department, was absent owing to the sudden death of her husband. Next Saturday hydrangeas, gloxinias and achimenes in plants and tuberous begonias, aquatic flowers and hardy ferns, cut, are on the schedule. Saturday, July 23, will be sweet pea day, and a fine display is looked for.

Philip Wieland died at his home in Dedham on July 8, aged 65 years. Mr. Wieland was engaged in the retail florist trade in Cambridge formerly, but for the past twelve years has been employed in the Boston and Metropolitan park departments, most of the time on the Back Bay Lens and Charles River embankments, where his thorough training, obtained in Germany, in all departments of horticultural made him a very valuable man. Personally he was popular and his company entertaining. His wife survives him.

F. and E. J. Welch have gone with their families to Old Orchard Beach for their summer outing. Geo. A. Sutherland will take a cruise along the Maine coast

Geo. A. Black, of Brighton, offers to settle with his creditors for 20 per cent of their claims.

#### St. Louis.

COOLER WEATHER FAILS TO REJUVENATE TRADE.—PICNIC COMMITTEES.—RUMORS OF NEW WHOLESALERS.—THE SEASON OF SUMMER PILGRIMAGES.

A most welcome fall in the temperature accompanied by cool north winds has been the special feature of the past week. It has not, however, had any effect on trade, everything being very quiet. Good stock does not exist hereabouts, and it is hard filling orders for critical customers with what is on hand. About the only thing that can be turned out in presentable condition is funeral work, and that is not as plentiful as it has been.

The next meeting of the Florists' Club is expected to be well attended as nominations of officers for the coming year are in order and final details for our annual picnic will be announced, for which committees have been appointed as follows:

Reception.—A. S. Halstedt, chairman; E. W. Guy, William Trillow, Adolph Fehr, Gustave Grossart, Michael Semmler, William Hucke, Henry Emmons, and the ladies of Belleville.

Transportation.—Fred. C. Weber, chairman; C. A. Kuehn and John W. Kunz.

Finance.—C. C. Sanders, chairman; F. W. Ude and Emil Schray.

Games and Sports.—J. J. Beneke, chairman; C. C. Sanders and A. Fehr.

Music.—Max Herzog, chairman; J. F. Annann and F. J. Fillmore.

Shooting.—Robert F. Tesson and E. W. Guy.

Bowling.—Carl Beyer and A. S. Halstedt.

Refreshments.—John Steidle, chairman; Theo. Fallner and Herman Ude.

Medical Advisers.—Doctors Helwig and Halstedt.

Rumors are thick in regard to wholesale houses that are to be open here this fall. So far, however, no positive information can be obtained in regard to any of them, although there seems to be an opening for another first-class wholesale florist and supply house.

The last pilgrim to leave town is Wm. Hucke, who has closed his store on South Grand avenue for the summer and is making a tour of the lakes. He will reopen his establishment with the regular season, probably some time in September. Hiram Beming is also taking a two week's vacation. He, however, is combining business with pleasure and will visit many of the consignees in Illinois and Indiana of the St. Louis Cut Flower Company, with which he is connected.

R. F. T.

#### Baltimore.

LITTLE CHANGE IN MARKET AND CROP CONDITIONS.—HENRY KIMMELMAN KILLED AND HIS WIFE SEVERELY INJURED BY A FALLING STAND.

There is but little change in the market. The dry weather continues and is becoming a very serious matter to those whose water supply is not unlimited. Asters have made their appearance in limited quantities.

Henry Kimmelmann was instantly killed on Monday, July 11, by a piece of scantling falling on his head while he was erecting a stand beside his greenhouse at Orangeville, Baltimore county. The stand fell when a prop became displaced and the back of Mr. Kimmelmann's skull was crushed. His wife, who was stand-

ing nearby when the accident occurred, was struck by a piece of scantling and her left leg was broken.

The Florists' Club has decided to have its annual outing at Clifton Park.

MACK.

#### Providence, R. I.

The usual inactivity that follows the commencement season arrived on schedule time, but we have no cause for complaint, as this year saw an unprecedented demand for flowers. Fancy baskets seemed to be in better demand than usual, although loose bunches and bouquets held their sway. Flowers were abundant and prices were away down, giving the retailer a chance to do a good job at a reasonable price.

The last meeting of the Florists' and Gardeners' Club was one of the most enjoyable ever held. It was of a social nature and the attendance was unusually good. The club voted to have a field day in August when the members with their families will enjoy a sail to Seacourt. President Canning is the right man in the right place; he has introduced many innovations that make the meetings worth attending.

Some of the flower stores down town are contemplating putting in nickel in the slot machines or some "flim flam" to compete with dry goods stores, jewelry stores and meat markets that sell plants, cut flowers, and lastly lawn mowers for \$1.90.

As small as she is "Little Rhody" will have representation at the Omaha convention.

Flowers are abundant, but everything is burning up for want of rain.

LITTLE RHODY.

#### Bloomington, Ill.

A range of nineteen houses, comprising over 35,000 feet of glass, constitute A. Washburn & Son's greenhouse plant situated a short distance from the city limits. Everything in the line of cut flowers, worth growing at all, is grown here with marked success. Mr. Washburn has been especially successful with his Marie Louise violets, of which he grows five houses. Last season's crop could not possibly have been surpassed, and this year's success promises to be fully as great. A noteworthy improvement about the Messrs. Washburn's greenhouses is that of replacing the old boilers by four of new construction, each of fifty horse power capacity. These will soon be placed in position.

A new departure worthy of special mention is the manufacturing of grape and fruit boxes carried on by the Washburns in the large basement of their seed and flower store. The machinery devised for producing boxes in large quantities and thereby make them yield good returns, are of the very best.

W. T. Hempstead has commenced building a rose house.

J. D. Robinson has left for a short trip east.

HOMO.

GRAND RAPIDS, MICH.—The Grand Rapids Floral Company rented a load of palms on July 7. It was four days later that they sent for the stock and discovered the swindle. It was the same game which has been perpetrated a dozen times throughout the country this spring and doubtless was "worked" by the same operator.



## THE AMERICAN FLORIST

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

PRESIDENT MCKINLEY'S favorite flower is a pink carnation and he always wears one on the lapel of his coat.

ONE of our correspondents raises an interesting question, viz., "Why does Mme. Salleron geranium never bloom?" He adds: "I have grown it for years, and never saw it produce a single flower or bud."

HONORS are pouring in upon Assistant Naval Constructor Richmond P. Hobson, of Merrimac fame. At the recent show in Boston a particularly gorgeous peony with petaloid anthers was labeled the "Lieutenant Hobson."

THE English rose growers, Paul & Son, have in their new rose, Una, a cross between Rosa canina and a tea. The growths are said to have attained a length of twenty-five feet. The flowers are semi-double, four inches in diameter and of a rich cream color with a buff tint.

THE clever gentleman who rents palms which he never returns is still pursuing and pursued. He was last heard from in Michigan, where several florists learned at considerable cost to verify orders brought by strangers. The swindler invariably represents himself as the "man" of a well-known family.

THE Nebraska State Horticultural Society and the Southwestern Iowa Horticultural Society will hold a union meeting at Omaha, July 26, 27 and 28, which promises to be one of the most interesting gatherings of this character of the year. A programme of unusual interest has been prepared.

MR. A. L. WINTON, says the *Gardeners' Chronicle*, gives the following details relating to violets: One thousand plants contained in pounds, 257 pounds of water, 52 of organic and volatile matters, 7 of other mineral matter, equal 316. Of nitrogen, the quantity works out at 1.5; potash, 1.74; soda, .55; lime, .62; magnesia, .25; phosphoric acid, .37; sulphuric acid, .32; chlorine, .27; other matters, 2.76, equal 6.88.

### The Omaha Convention.

THE AMERICAN FLORIST is in position to secure the best possible rates of fare to Omaha, route to be fixed later. We shall be very glad to have the names of all who are thinking of making the trip so that we may submit route and very best rates when arrangements are completed. Berths will be secured on application.

### Eel Worms.

There has been some discussion on the use of silico fluoride of ammonium in the *Journal of Horticulture* (English). In an article by Mr. G. Abbey, it is stated that

experiments conducted by him show conclusively, that one ounce of this substance to a square yard of ground will completely destroy eel worms and many other noxious insects. As its effects are injurious to some plants (although not so much to the roots as to the leaves), he advises treating the ground before planting. The substance soon decomposes and thereby becomes harmless to vegetation while, as it contains about 19 per cent of ammonia, it leaves in its decomposition a valuable fertilizer.

### Cut Flower Price Lists Received.

Cincinnati Cut Flower Co., Cincinnati; Holton & Hunkel Co., Milwaukee; Wm. F. Kasting, Buffalo; St. Louis Cut Flower Co., St. Louis; Louisville Florists' Supply and Exchange, Louisville.

### Catalogues Received.

Benjamin Hammond, Fishkill-on-the-Hudson, N. Y., paints; Hubert & Lucas, Vauquedior Nurseries, St. Andrew's, Guernsey, bulbs; Rea Brothers, Norwood Nurseries, Norwood, Mass., herbaceous perennials; Peter Henderson & Co., New York, N. Y., plants and seeds; The New Jersey Moss and Peat Co., Barnegat, N. J., peat; Ellwanger & Barry, Mt. Hope Nurseries, Rochester, N. Y., plants; John Barth Bos, Overveen, near Haarlem, Holland, bulbs; Arthur De Meyer, Mont St. Amand, near Ghent, Belgium, plants; Brinkworth & Sons, Winchester, Hants., England, seed dressing; Pennell & Sons, Lincoln, England, plants; E. H. Krelage & Son, Haarlem, Holland, bulbs; Pinehurst Nurseries, Pinehurst, N. C., seeds.

### Greenhouse Building.

Bloomington, Ill.—W. T. Hempstead, one rose house.  
Terre Haute, Ind.—Lawrence Heintz, rebuilding four houses 10x85.  
Fremont, Neb.—Green & Nichol, one carnation house.  
Norwich, Conn.—F. J. Langenbach, two greenhouses.  
Waterville, Me.—Mitchell & Son, one rose house.  
Bay State, Mass.—W. C. Lacey, one forcing house.  
West Chester, Pa.—Max Meyer, six greenhouses.  
Newburgh, N. Y.—Newburgh Floral Co., one smilax house.  
Burlington, Vt.—C. E. Gove, two commercial houses.  
Mt. Holly, N. J.—Mrs. H. F. Smith, conservatory.  
St. Paul, Minn.—R. C. Seeger, one violet house.  
Washington, D. C.—J. R. Freeman, rose house 22x150, carnation house 16x100.

### A Leaky Roof.

ED. AM. FLORIST:—What can I do to prevent my greenhouse from leaking? It was built three years ago. Last fall the putty began to scale and I had it scraped and mastic run on. The latter now has scaled worse than the putty. L. E. P.

Although the letter does not say so in so many words, I infer that perhaps L. E. P. may have placed the putty and mastic upon, instead of beneath, the glass, as when glass is properly bedded, as has been the practice for fifteen or twenty years, in either putty or mastic, there should be no trouble from leaks for a number of years. If the glass has been

carefully laid and is securely fastened in place, it can with a little labor be made fairly water-tight, but if not it will be better to take it out and relay it. To repair the roof without removing the glass, after scraping off all the loose putty (and, if it is on the outside, a good job cannot be done without taking it all off), fill the cracks at the sides of the panes with either putty or mastic, using a "gun" for the purpose. If the glass is lapped it will be desirable to back-putty beneath the panes. The best putty is made from whiting and linseed oil with seven or eight per cent of pure whitelead. The sash should then be "drawn," using a moderately thick paint and taking care to fill all cracks. In drawing the sash it will be well to allow the brush to lap over upon the glass for one-eighth or one-fourth of an inch. When properly glazed and repainted every year or two a roof can be kept in condition for a number of years without reglazing. L. R. TAFT.

### The Dutch Horticulturists.

At the June meeting of the Dutch Horticultural and Botanical Society, held in Amsterdam, the floral committee made the following awards: First-class certificates to E. H. Krelage & Son for *Acalypha Sanderi*; J. H. Kersten & Co. for *Anemone coronaria fl. pl. White Lady*; J. H. Schober, for *Epidendrum purpureum*; and J. C. de Lange for *Lilium rubellum*. Certificates of merit to E. H. Krelage & Son for *Brodiaea Howelli lilacina* and H. D. Willink van Collea for *Lupinus Nootkatensis*. Botanical certificates to E. H. Krelage & Son for *Calochortus Maweianus major*, *Iris nigricans*, *Kniphofia Tucki* and *Tulipa Sprengeri*; and to Baron von Boetzelaer for *Masdevallia rosea* and M. Ephippium, who also received honorable mention for three varieties of *Odonoglossum crispum*. E. H. Krelage & Son were awarded a gold medal for a collection of cut flowers from bulbous and tuberous plants.

### The Price of Free Seeds.

There appears in the *Congressional Record* of July 9, 1898, a speech delivered by Hon. David H. Mercer, of Nebraska, Thursday, January 13, 1898, in which are given some very interesting facts concerning the free distribution of seeds by the Department of Agriculture. Mr. Mercer produced a letter from the Secretary of Agriculture including a tabulated statement showing the amount of money expended by that department for free seed distribution and statistics from 1853 to 1897, aggregating \$3,477,801.32.

The combination of the statistics and seed distribution appropriations ceased, apparently, in 1864, and from 1865 to 1897, inclusive, \$2,850,897.11 was expended in the free distribution of seeds alone. The appropriations for experiment stations between 1888 and 1897, inclusive, amount to \$6,774,372.62, a grand total of \$10,251,173.94 for seed distribution and experiment stations, including the small amount spent on statistics from 1853 to 1864, inclusive.

R.

### "Palmenzucht und Palmenflege."

Messrs. Trowitzsch & Son, Frankfurt-on-Oder, Germany, have sent us a copy of this new book on palms by Dr. Udo Dammner. Many years ago, the late Benjamin S. Williams, of London, England, in one of his volumes on stove and greenhouse plants, gave us a very good account of

palms and cycads, with some excellent cultural notes. In the interval we have had nothing of this character in similarly compact form, although many interesting and valuable communications on these plants have appeared in the horticultural journals. It is therefore a great pleasure to receive Dr. Dammer's work under the above title, dealing with the propagation and cultivation of palms. Most of the cultivated species and varieties are well described and many of them admirably illustrated. Very minute directions are given regarding propagation and culture. The amateur grower will find the directions for the treatment of plants grown in rooms and dwelling houses extremely useful, and the professional gardener is given many practical hints on matters with which he is rather unfamiliar. We rank the book among the most important on greenhouse plants which have made their appearance within the past ten years, especially as palms in recent times have become so popular with all growers of ornamental plants. The text is in German.

**More About Rose Soil.**

In order to grow fine roses the first requisite is good soil. That rose growers use loam taken from ground that has been sown to grass for several years is due, in the first place, to the fact that it contains a larger percentage of nitrogen than would ordinarily be found in loam from a cultivated field. In the second place, the mechanical action of the soil is much improved by growing grass on the land, thus providing for the roses, when the sod is properly composted, a soil rich in plant food, free from harmful ingredients, and better suited to the requirements of the plants. Roses, however, can be well grown in any good, heavy loam, providing it be properly prepared and a sufficient amount of fertilizing material added, but in either case care should be used in its preparation, and on no account use sod or loam directly from the field. It should be composted for at least two months before using and even a year is none too long.

In other words, everything being equal as to care, etc., the roses planted in good, well-rotted loam from an old pasture, will be much finer and be more easily grown than when ordinary loam is used.  
Bay Side, N. Y. JOHN H. TAYLOR.

**After the Evans Cup.**

Serene in their confidence in their prowess the knights of the lignum-vite balls who bowl upon the alleys of the Chicago Florists' Club are resting upon their oars before the big convention contest which shall decide for the year the possession of the Evans Challenge Cup. The Chicago bowlers are making no boasts but feel prepared to "roll" three of the "warmest" kind of games, and it is safe to say that the team which wins at Omaha will have to make a better score than did Philadelphia at Providence when the boys from the City of Brotherly Love captured the beautiful silver trophy with 2501 points, or an average of 133.

There is more than usual interest taken in the game this year and a splendid contest may be anticipated at Omaha. Chicago, St. Louis, Indianapolis, Philadelphia, Pittsburg, Omaha and probably several other clubs will compete and will all put up strong games. Out at the convention city there are bowlers who threaten to rob the east of her self-esteem, for A. Donaghue, St. J. H. Holmson, R. H.

Davey, L. C. Chapin, S. B. Stewart, and several others are rolling weekly scores which, if they can be duplicated in the face of the enemy, will set a pace fully swift enough for any team in the country. The trophy, which all clubs covet, must be won three times to become permanent property.

Hot summer evenings are not the best that could be for any physical exercise, but Chicago, in common with other cities, continues to have a fair attendance on bowling night, although several of the best players are at present enjoying vacations out of the city. At the last meeting the following score was made:

J. S. Wilson.....	146	134	140	132
Geo. Stollery.....	158	146	105	111
Fred Stollery.....	134	110	96	103
C. W. Erne.....	100	106	100	98
John Degnan.....	129	135	108	106
H. B. Howard.....	90	103	105	
Geo. Headworth.....	130	116	113	117
C. Pruner.....		105	119	109

Among those who are proficient at the game but were not present last week are F. E. Winterson, who holds the high record for the season, A. L. Vaughan, George Asmus, P. J. Hauswirth, G. Lange, F. Robinson, Oscar Kreitling, Robert Schenck, C. Hughes, Charles Ield and a half score of others.

**TORONTO, ONT.**—The Canadian Florists' Association will hold its first annual convention here in September. The executive committee met at Hamilton July 6, and perfected arrangements.

**WASHINGTON, D. C.**—Mr. and Mrs. J. Louis Loose left July 13 upon the American liner Kensington for a two months' tour of Europe. Wm. R. Smith is critically ill with hemorrhage of the lungs. He has been ill since July 4.

**CINCINNATI.**—Frank Ball has returned from a ten days vacation visit at Williamstown, Ky. There is a warm contest on between Ben. George, Charles Gardner and Wm. Murphy in the matter of selling picnic tickets. The one who sells the greatest number will win a prize.

**SITUATIONS, WANTS, FOR SALE.**

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

**SITUATION WANTED** By young man where he can learn rose growing thoroughly; two years in the trade; good reference; address: A. B. care American Florist.

**SITUATION WANTED**—By good all round florist and gardener; capable of taking charge. Please give full particulars in answer. Address: W. K. care American Florist.

**SITUATION WANTED** As manager of cut flower department. Good salesman, decorator and designer. All references. For particulars address: RELIABLE, care American Florist.

**SITUATION WANTED** As working foreman or otherwise by good rose grower, also carnations, mums, etc. age 28, wages not less than \$25. GEO. SPENCER, Gen'l Delivery, Detroit Mich.

**SITUATION WANTED** In commercial or private places by first-class florist, carnations and violets; good propagator. Best of references. Address: J. P. HERSEY, P. O. Box 15, East Kingston, N. H.

**SITUATION WANTED**—By practical florist and designer. No 1 rose grower, carnations, mums, violets, etc. Commercial or good private post paid. First class references. Address: FLORIST, P. O. Box 57, Albany, O.

**SITUATION WANTED** As assistant, 14 years experience under good growers. Capable to take charge or conduct commercial business. English, married, no children, can come alone. Address: ADVERTISER, 9 West 64th St., New York City.

**SITUATION WANTED** As working foreman, 20 years experience. Roses, carnations, mums, also best class designer and decorator. Sol brand of work. References. Age 35, married, no children. Address: K. H. West 6th St., Elmira, N. Y.

**SITUATION WANTED**—By practical experienced florist; age 33 single. For the last four years with one of the largest florist establishments in the east. Well recommended. Commercial or private place. Address: JOHN STROH, Graat St., Flatbush L. I.

**WANTED**—A working foreman; must be first-class Beauty grower; for which we are willing to pay a first-class price. None need rep y unless can furnish first-class recommendations. HILLARD & KARLSON, Exeter, N. H.

**WANTED**—Lady to assist in flower store; one willing to work and who has had experience; steady place at fair wages for the proper person. For further particulars address: FRY & KASTNER, 150 East Pierce St., Council Bluffs, Iowa.

**WANTED AT ONCE**—An all around experienced gardener for commercial place; must understand the culture of palms and ferns. Young and single man preferred; for information address: LOUIS G. PFUNDER, 427 Washington St., Portland, Ore.

**FOR RENT**—First-class city greenhouses in city of over 20,000 in Illinois. A. B. care American Florist.

**FOR SALE CHEAP**—Only greenhouse in town of 4000 in Southern Michigan. Good reason for selling. Address: C. H. PICK, Hudson, Mich.

**FOR SALE**—Four greenhouses, nearly new. Splendid retail stand in residence district on paved street leading to cemetery. Easy terms. Must retire on account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

**CHICAGO LOTS FOR SALE!**

One block from corner Lincoln avenue and Wellington street. A bunch of lots at \$25 per front foot, sewer and water. Suitable for greenhouse purposes. JAMES ROOD, JR., Tel. Main 3868, Room 5, 154 Lake St., Chicago.

**FOR SALE AT A BARGAIN.**

Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots, 35 ft. front; water, gas and electric light on street; greenhouse, office and barn all newly built, with all conveniences; heated by steam. Centrally located in city of 18,000 population in State of Indiana. Competition none to speak of. Leading establishment in the city. Sickness cause of selling. Address: INDIANA, care American Florist.

**FOR SALE.**

The largest greenhouse plant in northern Kansas, on the St. Joseph & Grand Island R. R., at Marysville, Kan. I offer my greenhouse and ten acres of land now enjoying a fine and growing patronage for cut flowers, plants and vegetable gardening; commodious dwelling house on the premises; living water, and all improvements and buildings quite new. A rare chance for an established business. Write for further information to: HANS SCHMALZ, Marysville, Kan.

**FOR SALE.**

**FIFTY HORSE POWER BOILER** with front and fittings complete, F. O. B. \$100.00. Is in first class condition, in use only five years heating school at low pressure.....

Address: JOSEPH KIFT, Manchester, Pa.

**Notice of Dissolution of Partnership.**

Notice is hereby given that the partnership heretofore existing between the undersigned, under name of E. Hall & Son, in the greenhouse business is by mutual agreement dissolved, and the undersigned, W. E. Hall, will continue the business, having purchased the interest of E. Hall in the same. All persons indebted to said firm will make settlement with W. E. Hall who is the owner of all outstanding accounts.

E. HALL, W. E. HALL.

Dated at Clyde, O., July 11, 1898.

**Now Ready!**

The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price \$2.00. In Flexible Leather Binding, \$3.00. Fully revised to date with upwards of

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If you want to buy, send for Catalogues. **✚**  
If you want to sell, write for terms. **✚ ✚ ✚**

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Original Designing. Ideas Practically Shaped.

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## REED & KELLER . . . .

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BRILLIANT GREEN AND BRONZE

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CINCINNATI, July 14.

Roses, Beauties, select. . . . .	15 00
" " medium . . . . .	8 00@10.00
" Brides, Brideamalds. . . . .	2 00@ 3.00
" Meteors. . . . .	3.00
" Perles. . . . .	2.00@ 3.00
Carnations, fancy. . . . .	50@ 1.75
Sweet peas. . . . .	.15@ .20
Tuberose, Stocks. . . . .	3.00@ 4.00
Gladlioll. . . . .	3 00
Smilax. . . . .	10 00
Adiantum. . . . .	1.00
Asparagus. . . . .	50.00

ST. LOUIS, July 14.

Roses, Beauties. . . . .	2 00@15 00
" Meteors. . . . .	2 00@ 4 00
" Brides, Brideamalds. . . . .	2 00@ 4 00
" Perles. . . . .	2 00@ 3 00
" Kaiserlins. . . . .	2 00@ 6 00
Carnations. . . . .	.75@ 1 00
Harrislil. . . . .	6 00
Sweet peas. . . . .	.15
Smilax. . . . .	12.50

MILWAUKEE, July 14.

Roses, Beauties. . . . .	5 00@20.00
" Brides, Brideamalds. . . . .	2 00@ 4 00
" Perles. . . . .	1 00@ 3 00
" Meteora . . . . .	2 00@ 4 00
Carnations. . . . .	.40@ 1.00
Sweet peas . . . . .	10@ 15
Gladlioll. . . . .	3 00@ 5 00
Smilax. . . . .	10.00@12.50
Adiantum . . . . .	75@ 1.00
Common ferns. . . . .	.20
Asparagus . . . . .	50.00

BUFFALO, July 14.

Roses, Beauties. . . . .	5.00@25.00
" Brides, Brideamalds. . . . .	2 00@ 6 00
" Meteora . . . . .	2 00@ 6 00
" Perles Niphetao . . . . .	1 00@ 3 00
" Kaiserlins. . . . .	2 00@ 6 00
Carnations, ordinary. . . . .	.50@ 1 00
Carnations, fancy. . . . .	1.00@ 2.00
Lily of the valley. . . . .	4 00
Sweet pea per dozen bunches. . . . .	.25@ .30
Smilax . . . . .	12.50@15.00
Auratum lilies. . . . .	8 00@ 10 00
Asters. . . . .	1 00@ 1 25
Adiantum. . . . .	1.00@ 1.25
Asparagus. . . . .	50.00@75.00

LOUISVILLE, July 14.

Roses, Beauties, per dozen. . . . .	.75@1.50
" Brides, Brideamalds. . . . .	2.00@ 3.00
" Meteors. . . . .	2.00@ 3.00
" Kaiserlins. . . . .	2.00@ 4.00
" Perles. . . . .	1.50@ 2.00
Carnations, fancy. . . . .	1 50@ 2 00
" common. . . . .	1.00
Sweet pea. . . . .	.20
Mignonettes. . . . .	.25
Smilax, per dozen. . . . .	1.25@ 2.00
Adiantum. . . . .	.75
Asparagus, per string. . . . .	.50

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ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

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WHOLESALE COMMISSION FLORIST. . . . .  
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Also Dealer in Florists' Supplies and Wire Designs

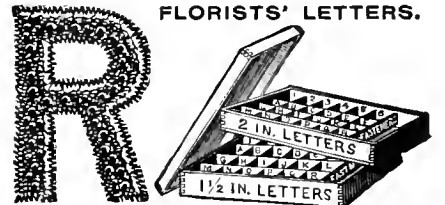
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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

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This is the British Trade Paper, being read weekly by all Horticultural traders; it is also taken by over 1000 of the best Continental houses. Address

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## HARDY CUT FERNS

Galax Leaves, Cut Palm Leaves, bouquet green, Moss (sphagnum and green), Laurel Koyang, Atlas Trees; every thing in the green line always in stock at

H. E. HARTFORD'S, 18 Chapman Place, BOSTON.

**E. H. Hunt**  
 THE "OLD RELIABLE" FOR  
**WHOLESALE**  
**CUT FLOWERS**  
 Hunt's Flowers  
 Go Everywhere  
 76 Wabash Ave., CHICAGO.

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**Wholesale Cut Flowers**  
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 W. S. HEFFRON, Mgr. ....CHICAGO.

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**Wholesale Florist**  
 Don't Forget that we are at 4 Wash-  
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 Write for special quotations on large orders.

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 Agents for the Hinesdale Rose Co. Special attention  
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 Roses, Beauties ..... per doz. .75@2.00  
 " Brides ..... 1.00@ 3.00  
 " Meteors, Kaiserlins ..... 1.00@ 4.00  
 " Bridesmaids ..... 1.00@ 3.00  
 " Stebrecht Perles ..... 1.00@ 3.00  
 Test cuts ..... 1.00@ 3.00  
 Carnations, common ..... .25@ 1.00  
 Asters ..... 1.00@ 2.00  
 Auratum lilies ..... 6.00@ 8.00  
 Harrisii ..... 3.00@ 4.00  
 Lily of the valley ..... 3.00@ 5.00  
 Sweet peas ..... .04@ .68  
 Gladioli ..... 2.00@ 4.00  
 Adiantum ..... .50@ 1.00  
 Common ferns ..... .20  
 Smilax ..... 8.00@10.00  
 Asparagus ..... 40.00@75.00  
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**FLOWERS** at  
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 Consignments Solicited. Special Attention Given to  
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**REINBERG BROS.**  
 WHOLESALE GROWERS OF  
**Cut Flowers**  
 600,000 FEET OF GLASS. We can fill all orders on short notice with all leading varieties  
 of Roses and Carnations. We are headquarters for Fine American  
 Beauties. Write us a trial and convince yourself.  
 PLANTS SENT BY EXPRESS AT PLANT RATES, 20  
 PER CENT LESS THAN MERCHANDISE RATES .....

**ROSE PLANTS**

	Per 100	Per 1000
American Beauties, 2 1/2-in.	\$4.00	\$35.00
" " 3-in.	5.00	45.00
Bridesmaids..... 3-in.	3.50	
Meteors..... 2 1/2-in.	2.50	22.50
Bridesmaids..... 2 1/2 in.	2.50	22.50
Perle..... 2 1/2-in.	2.50	22.50

SMILAX PLANTS. \$1.50 per 100; \$12 per 1000.

**Store closes at 5:30 P. M.**  
**during July and August.**

REINBERG BROS., - 51 Wabash Avenue, CHICAGO.

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... SUPPLY ...  
ORCHIDS  
EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING  
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

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## TRAENDLY & SCHENCK, Wholesale Florists,

Control the stock of many celebrated growers and  
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THE BEST MARKET IN NEW YORK.  
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## CITY HALL CUT FLOWER MARKET

WELCH BROS., Proprietors.  
The New England Headquarters  
for the best grade of flowers at all  
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9 Chapman Place, 15 Province Street,  
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## THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,  
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CONSIGNMENTS SOLICITED.  
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## JOHN YOUNG, ROSES, CARNATIONS, VALLEY

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Price list on application.

## Wholesale Flower Markets

NEW YORK, July 13.

Roses, Beauties, Hybrid	2.00@16.00
" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	.50@ 2.00
Carnations	.30@ .50
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	1.00@1.50
Harrill	3.00@ 4.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	25.00@40.00

BOSTON, July 13.

Roses, Beauties	5.00@15.00
" Morgans, Meteors	2.00@ 4.00
" Brides, Bridesmaids	1.00@ 4.00
Carnations	.25@ .50
Lily of the valley	2.00@ 3.00
Harrill	3.00@ 5.00
Sweet peas	.10@ .15
Smilax	12.00@15.00
Asparagus	50.00
Adiantum	.50@ .75

PHILADELPHIA, July 13.

Roses, Beauties	1.00@20.00
" Brides, Bridesmaids, Safrano	2.00@ 4.00
" Kaiserina	3.00@ 5.00
Carnations	.50@ .75
Lily of the valley	2.00@ 4.00
Harrill	4.00@ 6.00
Sweet peas	.15@ .25
Cattleyas	35.00@40.00
Smilax	12.00@15.00
Asparagus	25.00@35.00

We are able at present to fill orders for

## Choice Varieties of ORCHIDS and Special VALLEY.

WRITE US FOR PRICES.

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PHILADELPHIA, PA.

## Asparagus Plumosus Nanus.

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

## Now They're Cheap!!

FLOWERS, ALL KINDS,  
PLENTY OF THEM AT

J. K. ALLEN'S 57 WEST 28TH STREET,  
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## GALVIN & CO. Wholesale Florists

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FLORISTS' SUPPLIES,  
4 Ordway Place, BOSTON, MASS.  
Cut Flower Consignments Solicited. Best market.

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Good Money for your Flowers.  
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ALWAYS ON HAND  
CARNATIONS,  
BRIDESMAIDS,  
BRIDES.  
JOBBER'S IN  
FLORIST'S  
SUPPLIES.  
FLORISTS' VASES.  
Horticultural Auctioneers.  
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SPECIAL EXTRA STOCK

Am. Beauty, Meteor,  
Bridesmaid, Bride.

Record Breaking Carnations  
ALL THE YEAR ROUND.

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Wholesale Florist

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## WALTER F. SHERIDAN, WHOLESALE FLORIST,

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Roses shipped to all points. Price list on application.

## Rose Growers

Will find a good market and good  
returns for their stock at....

JULIUS LANG'S  
53 W. 30th Street, - NEW YORK.

Edward C. Horan,  
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WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.  
Price list on application.

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40 So. 16th St., PHILADELPHIA.

Consignments Solicited. Special attention given to  
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## N. Y. CUT FLOWER EXCHANGE

404-412 E. 34th St. Near Ferry.  
Open for Cut Flower Sales at 6 o'clock  
Every Morning.....

DESIRABLE WALL SPACE TO RENT  
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JOHN DONALDSON, Secretary.

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Wholesale Florists

111 West 30th Street, NEW YORK.

Consignments Solicited. Telephone, 260 38th St.

## FRANK MILLANG, CUT FLOWERS,

WHOLESALE COMMISSION,

408 E. 34th Street,

Cut Flower Exchange. NEW YORK.

## THE NURSERY TRADE.

## AM. ASSOCIATION OF NURSEYMEN.

A. L. BROOKE, Pres.; E. ALBERTSON, Vice-Pres.;  
GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

AUSTRIA has issued a proclamation prohibiting the importation of American nursery stock. This action is taken in fear of San Jose scale.

R. C. BERCKMANS, Augusta, is a member of the Georgia National Guard and has transferred his attentions from growing stock to mowing Spaniards.

HERBERT OSBORN, State Entomologist for Iowa, has issued a bulletin calling attention to the new law requiring the inspection of nursery stock. He asks the co-operation of the trade in carrying out the purposes of the legislation.

BELLEVILLE, KAN.—E. Howard and Miss Minnie Noble were married at Goff, Kan., July 5. Mr. Howard will shortly engage in the nursery business here.

NEWARK, N. Y.—As a result of a quarrel Antonio Allen, an employe of C. W. Stuart & Co., nurserymen, stabbed James Burns, a fellow workman. The assault was committed when Burns' back was turned.

## Plant Propagation for Parks.

*A paper read at the Minneapolis meeting of the American Park and Outdoor Art Association by Fred Kanst, landscape gardener for the South Park system, Chicago.*

The subject of plant propagation for parks is one which is often brought before park officials for consideration, there being few parks throughout the country so well supplied with native trees and shrubs that none need be procured.

In the majority of parks, and especially small ones, it is usual to obtain plants by collection from the surrounding country, or by purchase from nurseries. In larger parks, where thousands of plants are required, it is very essential in order to obtain the best results, as well as for economical reasons, that a park nursery be established where such trees as the elm, oak, ash, linden, negundo, birch, maple, etc., may be kept growing in a healthy condition until such time as they may be needed. These trees when young can be purchased from nurseries very reasonably and when in nursery rows they can be had at any time they are wanted, thus saving delay, as the seasons of planting are usually short. Another advantage is that the trees will have become acclimated. But the principal object of a park nursery is to furnish quickly and in large quantities such varieties of trees, shrubs and plants as will be mostly used in the plantations, such as spiræas, cornus, ligustrum, philadelphus, ribes, symphoricarpos, lonicera, poplars and willows. These and many others may be readily increased from cuttings obtained from plants already about the park, by collection or by purchase.

A place for cuttings should be prepared in the fall by covering a piece of ground with manure or leaves to keep the frost out, sandy places being the best for the purpose. Cuttings of about ten inches in length should be taken in the winter. The old, tough wood does not root easily, therefore cuttings taken from young, ripened wood, is preferable. Put the cuttings in the prepared ground, removing the leaves or manure as fast as space is wanted. After the cuttings are in place the covering can be put back to prevent hard freezing, as it is necessary to retain all of the vitality possible.

The planting into the park nurseries

should begin when the heavy frosts are over, or about April 15, when most of the cuttings will have calloused in their winter quarters. A suitable piece of ground for the nursery can usually be found in some incompleated portion of the park. The ground should be well plowed and pulverized, and ample provision made for water. Cuttings should be planted in rows running north and south, so that the sun can penetrate between the rows, as they make better plants and grow straighter than if planted east and west.

For park purposes cuttings may be planted from twelve to fourteen inches between rows and from six to eight inches apart in the rows, or about 50,000 to the acre. One man with a good hand cultivator can attend during the summer about 100,000 plants. At one year old cuttings will have grown into fine stock ready for use in the plantations, and at that age the cost is very little compared with what it would be if the plants were allowed to grow another year or two in the nursery. They are easy to handle and only a small hole need be dug to insert the roots. In plantations where the ground is as soft as it should be one man can put out about 500 per day.

The raising of their own plants, as before described, has been practiced by the South Park Commissioners for years past, and over 400,000 trees and shrubs, all grown in this way, are now in different parts of the park and all in fine condition. There are also 150,000 cuttings, which were made last winter, growing in the nursery at the present time, which will be ready for next spring's planting.

## Worcester, Mass.

There has been no improvement in business during the last week although trade is up to the usual summer standard. Considerable funeral work has helped us in disposing of what flowers we are getting. The supply has shortened considerably, but we are still producing all we require.

We need rain badly and unless we get it, and very soon, things will begin to be serious. Field crops are almost at a standstill and lawns are commencing to burn badly where the hose is not kept busy the greater part of the time. Carnations have done finely up to the present and a good soaking rain now would almost insure fine plants this fall.

Potter & Cousins, who have been running P. Gormley's old place on Cambridge street, have leased the Warner establishment at West Boylston and will make carnations for the department store here their principal crop. A. H. L.

BANGOR, ME.—Frank Casey, the landscape gardener, is making some very marked improvements in Forest Avenue Park.

**HOW TO GROW MUSHROOMS** My 21 pp. booklet on M. Cult. free to buyers or intending buyers of spawn; to others, 10 cents. New supplement on out-door culture by J. N. C. GARDNER included. First importation of the new spawn due at this port Aug. 25. Prices on application. C. C. Watson, Juniper & Walnut Sts., Phila., Pa.



# The Royal Tottenham Nurseries Ltd.

Late of  
A. M. C. Jongkind  
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Managing Director: A. M. C. VAN DER ELST.

WHOLESALE GROWERS OF

Hardy Perennials, Aquatics (especially new and scarce varieties), Azalea, Rhododendron, Hydrangea and Conifers, beg to announce that their catalogue containing a good many rare and new plants is in the course of preparation and copy may be had on application.

For Fall '08 and Spring '09 Delivery

A SPLENDID ASSORTMENT OF

## FIELD-GROWN HARDY ROSES

Clematis, Ornamental Shrubs and Trees, Pæonies, Herbaceous Plants, Small Fruits, Fruit Trees.

Price list ready in July.

Special quotations gladly submitted by letter.

**Jackson & Perkins Co.** Newark, N. Y.

## NEW SEEDS.

PRIMULA—Florist strain, trade pkt. 50c; double trade pkt. \$1.00.

PANSY—Mitling's Giant Flowering, florist strain, trade pkt. 50c; double trade pkt. 75c, or 3/4 oz \$1.00, 1 oz \$1.00.

PANSY—German, trade pkt. 25c; double pkt. 10c, or 3/4 oz 50c; 1 oz \$2.00.

CINERARIA Hybrid—Trade pkt. 50c; double trade pkt. \$1.00.

Above seeds have been tested and found 91 per cent. new 1888 seeds.

THE MORRIS FLORAL CO., Morris, Ill.

# HARDY SHRUBS

Assorted in 25 Varieties.

My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

**SAMUEL C. MOON,**

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## OUR SPECIALTIES ARE

**Azaleas, Roses, Rhododendrons**

New and rare hardy plants for forcing. Novelty in Ferns (raised by the largest London grower). The newest and best varieties of roses, H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

**F. Brunton & Co.** IMPORTERS & EXPORTERS OF NEW AND RARE PLANTS.

136 Boylston St., BOSTON, MASS.

## HARDY

# Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

**JACOB W. MANNING,**

The Reading Nursery, READING, MASS.

ESTABLISHED 1854

## Surplus Stock

Can be disposed of by  
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This Size "Ad." Costs Only \$1.00.

AMERICAN FLORIST CO., CHICAGO.

## A LIVE AND RELIABLE CORRESPONDENT

WANTED in every live city in the world. We enable you to deliver flowers by telegraph. A profitable convenience. For particulars, write

**C. B. WHITNALL,**

438 Milwaukee St., MILWAUKEE, WIS.

**Cleveland.**

BUSINESS HAS REACHED THE LOWEST LEVEL OF THE YEAR.—RETAILERS INAUGURATE A SEMI-EARLY CLOSING MOVEMENT.

There is really nothing transpiring in florist circles here. Trade is at the lowest stage of ebbtide and is as dead as it possibly can be. Stock is in short supply and of poor quality and the only business in hand is the preparation for the approaching fall season.

The florists who conduct retail stores have arranged to close evenings at six o'clock until the season opens. This is a step in the right direction. It is to be hoped that all will see the benefit arising from such a move and maintain their position. It does certainly seem as though the average florist works a great deal longer hours than would be necessary if they could all agree to close as other stores do. It is purely a matter of educating and accustoming the public to get their flowers at reasonable times instead of causing them to harbor the impression that a florist's establishment can be found open at any time, like an all night restaurant. A.

**Converting a Steam Boiler Into a Hot Water Heater.**

ED. AM. FLORIST:—I would like to ask through your paper how a Furman No. 3 can be converted into a hot water boiler? L. G. G.

The principal difference between a steam and hot water Furman boiler is in the size of the outlets and inlets, which are much smaller in the steam boilers. The steam boilers also have a safety valve, water column, etc., which should be taken off and the openings plugged. The regular tapping for a Furman No. 3 steam boiler has two 2-inch outlets and one 2-inch inlet. The outlets will answer for 400 square feet of radiation, and rather more if the flow pipes are increased to two and one-half inches at the boiler. It will be even better if the outlets are tapped to two and one-half inches. For the best results the returns should be of the same capacity as the flows, and it will be desirable to have a 2-inch inlet to each of the outer rear sections in addition to the one now in the center section. If the outer sections cannot be tapped, or replaced by sections made for hot water they can be taken out, connecting the returns and the dome of the heater with ordinary black pipe. As this will cause considerable expense it may be best, in case the radiation does not exceed 400 square feet, to use a closed system under twenty pounds pressure and connect with the present 2-inch inlet. The main returns should be of the same capacity as the flows until they reach the boiler. L. R. TAFT.

**Saginaw, Mich.**

One of the leading florists of this city was recently the victim of an unquestionably smooth swindle by an Englishman, "you know," who was about thirty to thirty-five years of age, medium complexion, about five feet six inches tall, smooth face, weight about 160 pounds, and of a workman-like appearance. His little scheme is to order for a prominent citizen, one of our customers, a number of palms for a few days (in this case it was about one dozen valued at about \$30), to be used for decorative purposes.

Previous to ordering the stock he

obtains permission to place the plants in aforesaid prominent citizen's back yard by saying that he has bought a lot of flowers and wishes to sell them in the neighborhood, but not having a wagon of his own is obliged to ask a place where he can leave them in safety for a few minutes. On the arrival of the wagon with the palms, for which he has been watching patiently, he tells the boy to drive around in the back yard with them, saying that he has to wash the pots before taking them into the house. As soon as the wagon has gone he sells the stock to the neighbors at any price he can get. This is the last seen of him, and the florist's chagrin can be better imagined than described when he goes after his palms and finds that he has been cleverly swindled.

Since this was worked on me I have found that the scheme has recently been used extensively in other parts of the country and several times in Michigan within the past two weeks. If any florist should have any dealings with a stranger of the above description he will do the undersigned a great favor by having the police authorities hold him and communicate with the authorities in Saginaw, who hold a warrant for his arrest on the charge of obtaining goods under false pretence, and greatly oblige, A. VICTIM.

**Orchids..**

JUST ARRIVED IN FINE SHAPE: Cattleya Warneri, Laelia Perrinii, Laphanites Grandiflora and Coccinea, Miltonia Spectabilis and many more.

LAGER & HURRELL, - Summit, N. J.

**Asparagus Sprengerii**

SEEDLINGS ALL SOLD.

Fine Plants, \$8.00 per 100. Sample by mail 10 cents.

American Rose Co., Washington, D. C.

**ASPIDISTRA**

Lurida fol. var. just now in good condition without leaves, good roots with sprouts, \$6 per 100; sample, 90c per doz. postpaid. Canna "Florida" for trial 10 cents.

Asparagus Sprengerii Seed, 100, \$1.00

Fresh from the vines, 1000, 8.00

Pampas Grove Nurseries, Greenland P. O., Florida.

**Rose Hill Nurseries**

LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Araucarias, Pandanus.....

SIEBRECHT & SON, New Rochelle, N. Y. New York Office, 409 Fifth Ave.

**SPECIALTIES**

IN BEST...VARIETIES.

ROSES, from 3-inch pots. CARNATIONS, for fall delivery. CHRYSANTHEMUMS. SMILAX.

Prices low. Send for list. VIOLETS. WOOD BROTHERS, FISHKILL, N. Y.

SMILAX, from 2-inch pots \$1.50 per 100; \$15.00 per 1000. HYDRANGEA Okeana, from 3-inch pots \$5.00 per 100. GERANIUMS, from 2-in. pots \$2.25 per 100; \$20 per 1000. " 3-in. pots \$1.00 per 100; \$8.00 per 1000. " 4-in. pots \$6.00 per 100; \$50 per 1000. Cash with the order. send for samples. FRED. BOERNER, Cape May City, N. J. When writing mention the American Florist.

**"NOVELTY" TULIP**

For Florists' Forcing.

White, shaded with beautiful rose pink. Best selling Tulip in the market last season. Bulbs ready in September.\* Write for prices.

INTRODUCED BY

**Vaughan's Seed Store**

HEADQUARTERS FOR "FANCY" BULB STOCK.

CHICAGO: 84-86 Randolph St. NEW YORK: 14 Barclay Street.

**PALMS and FERNS**  
The Largest Stock of PLANTS IN THE WEST  
GEO. Wittbold  
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**FERNS**

PTERIS TREMULA, strong, ready to shift to 4s. \$3.50 per 100; \$30.00 per 1000.  
N. EXALTATA (Sword Fern).....\$4.00 per 100  
N. EXALTATA Bostoniensis.....\$5.00 per 100  
N. CORDATA.....\$6.00 per 100  
N. DAVALLIOIDES Furcans.....\$10.00 per 100

Address R. WITTERSTAETTER, Sedamsville, O.

**CHINESE PRIMROSES**

Per 100  
20,000 PRIMROSES, single mixed, 2-inch.....\$2.00  
SMILAX, 2 1/2-inch pots.....\$5.00 per 1000, .75  
ALTERNANTHERA, Red and Yellow.....1.00  
CINERARIA, ready in August.....2.00  
PANSY SEED, 1/2 oz. \$2.00; oz. \$3.50. CASH.

JOS. H. CUNNINGHAM, Delaware, O.

2000 Smilax  
First-class 3-inch stock, \$2.50 per 100; \$20 per 1000.  
THE E. HIPPARD CO.,  
.....YOUNGSTOWN, OHIO.

25,000 Smilax  
Extra strong plants out of 2 inch pots ready for immediate planting at the lowest price ever yet quoted. \$1.00 per 100; \$8.00 per 1000. Cash with order.  
Bear in mind this is strictly first-class stock and there is a large saving in freight, buying out of 2-inch pots. First come, first served.

South Side Floral Co., SPRINGFIELD, ILL.

It is good business policy to mention the  
...American Florist  
when you write to an advertiser.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOGGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

HENRY A. SALZER has returned from a trip to the Idaho gold mines.

H. M. WALL, of Brooklyn, N. Y., is gathering in numerous orders for catalogue covers.

HOWARD M. EARL, with W. Atlee Burpee & Co., has returned from his California trip.

N. SLUIS and son, of Sluis & Groot, Eekhuizen, Holland, passed through Chicago on their way east from a Pacific coast trip.

FIRST Liliun Harrisii bulbs arrived in New York July 11. It is a disputed point whether earliest or prematurely dug stock is of any real advantage to the florist over those which are allowed to fully mature in the ground.

At its recent convention the American Seed Trade Association passed appropriate resolutions upon the death of Reinhard Maitre and F. E. McAllister, two old and valued members who had gone to their reward since the previous annual session.

MINNEAPOLIS, MINN.—S. Y. Haines has made application in the district court for a receiver for the firm of C. H. Lippincott, of which he is a member. Haines alleges in his application that Carrie H. Lippincott has excluded him from the management of the business, a function which he was to exercise under the terms of their partnership agreement. Judge Harrison has issued an order restraining the defendant from disposing of any of the firm's property pending a settlement. The assets are valued at \$3,000.

Californian Crop Prospects.

ED. AM. FLORIST:—I find celery is nearly a failure. Lettuce very poor, acreage light. Onion there is not growing thirty per cent of the usual acreage; will not yield 150 pounds per acre. Salsify a fair crop. Radish crop very light; much destroyed by lice and birds. Carrot will not harvest over one quarter crop. Spinach extremely light. Sweet peas much shorter than heretofore reported; leading varieties such as Blanche Ferry, Countess of Radnor, Blanche Burpee and Mrs. Gladstone are nearly a failure. The sweet peas now being harvested will not thresh out an average of 100 pounds per acre. I believe that October must see higher values than now prevail on many California products. Some contractors of sweet peas will be unable to make deliveries from 1898 crops.

CHAS. P. BRASLAN.

San Francisco, Cal., July 11.

Under date of July 14, C. C. Morse & Co. report "Onion crop promises full average, but acreage not over twenty per cent of last year. Present holdings of 1897 crops are very small owing to the heavy den and in the spring. Some growers hold 1896 seed, which is undesirable. Celery and carrot are fair, but the acreage is quite small. Lettuce below the average, radishes poor, spinach rather short, sweet peas shorter than anticipated, especially the standard varieties."

FREESIA BULBS!

From careful inspection by our representative in the growing fields during the past season, we believe this "BERMUDA" stock to be the purest giant flowering strain of White Freesia in the world.



A Few of OUR SPECIALTIES: "London Market" Brand Lily of the Valley Pips, Japan Liliun Longiflorum, Liliun Harrisii, Azalea Indica and Bermuda Grown Freesias.

WHITE GIANT FLOWERED

"Bermuda" Grown. New Crop Now Ready.

	Per 100	Per 1000
MAMMOTH SIZE.....	\$1.25	\$9.00
SELECT SIZE.....	1.00	7.00

Samples free on application.

LAST CALL

To obtain lowest "import" prices on all Fall Bulbs orders should be placed AT ONCE....

LILIUM HARRISII } READY

(Indispensable for Early Forcing)

As Healthy as Grown on the Island } SOON

PRICES LOW, CONSISTENT WITH QUALITY.

Vaughan's Seed Store,

Headquarters for "Fancy" Bulb Stock.

CHICAGO: 84-86 RANDOLPH ST. NEW YORK: 13 BARCLAY STREET.

COLD STORAGE VALLEY ALWAYS ON HAND.

CASES of 2500 pips, extra quality, \$25.00; per 1000, \$12.00. CASES of 3000 pips, good quality, \$25.00; per 1000, \$10.00.

CLUGAS & BODDINGTON CO., 501 & 503 West 13th St., NEW YORK CITY.

"BEST OF ALL" TOMATO

(FOR FORCING)

"ENGLISH" MELONS

(FOR FORCING)

FLOWER SEEDS FOR FLORISTS

Catalogues on application.

WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., NEW YORK, N. Y.

OUR CLAIM FOR SPECIAL EARLY DELIVERY SUBSTANTIATED.

HARRISII ARE IN.

For early planting write us.

W. W. BARNARD & CO., 161 Kinzie St., CHICAGO. Mention American Florist.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners

TELEGRAPH CODE

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\$1.00.

In either stiff or flexible cover.

ADD THESE ORDERS TO

AMERICAN FLORIST CO., CHICAGO.

SEED CLEANING Machinery & Fixtures FOR SALE!

1 No. 5 Monitor Dustless Pea and Bean Separator. 1 No. 9 Clipper M II. 45 Pontiac Picking Machines. 1 25 H. P. Thomson-Houston Motor. Shafting, Belts, Pulleys, etc., for operating the above. 6 Platform and Counter Scales. For further particulars and prices address

A. J. M. JOINER

12 No. Clark St., - CHICAGO.

Manufacturers and Dealers **BAGS** COTTON SEAMLESS, BURLAPS, ETC. SECOND HAND BAGS BOUGHT AND SOLD. CINCINNATI BAG CO. Second and Walnut Sts., CINCINNATI, O.

The Only Machine

on the market for automatically filling and sealing seed packets.

The Brown Bag-Filling Machine Co. FITCHBURG, MASS., U. S. A.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

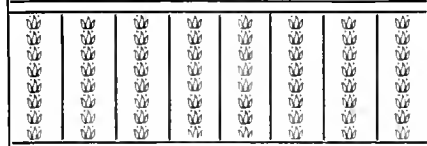
HENRY A. DREER, Philadelphia, Pa.

Please mention the American Florist



# Now Ready!

The American Florist Company's



FULLY REVISED TO DATE  
WITH UPWARDS OF

**3,000**  
**NEW NAMES**

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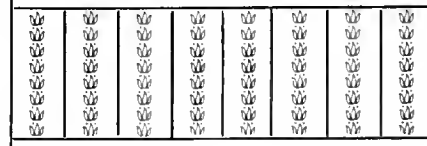
**Florists,  
Nurserymen  
And Seedsmen**

Of the United States and Canada arranged both by States and Post Offices and all names Alphabetically.

PRICE

**\$2.00**

IN FLEXIBLE LEATHER BINDING, \$3.00.



## American Florist Company

324 Dearborn Street, = CHICAGO, ILL., U. S. A.

St. Paul.

SUMMER INACTIVITY FOLLOWS THE MOST PROSPEROUS SEASON IN MANY YEARS.—CONDITION OF STOCK.—GROWERS ARE PREPARING FOR THE FALL CROP.—PERSONAL GOSSIP.

The summer dullness settled down upon the trade in this section about the first of July, and the monotony is only occasionally interrupted by funeral orders or a wedding.

Some Kaisersins and Meteors from new plants are being cut and are fairly good. Beauties also are of fair quality and retail readily at \$3 to \$4 per dozen. Bride, Bridesmaid and Perle are scarce and poor. Some very good carnations are still being cut and the quality was never excelled at this season of the year. Day-breaks fade quickly but are popular nevertheless. Scarlet carnations are scarce and in brisk demand. Auratum, album and rubrum lilies are in good demand, being used mostly for funeral work. There are no longiflorums in market but our growers will next season carry over some of these valuable lilies for summer blooming. Sweet peas are now abundant and of extra good quality. Ample moisture with warmer weather has brought outside stock along in fine shape.

The growers are now making repairs, planting roses and chrysanthemums and getting everything in shape for another season's business. While we hear of no extensive building improvements. Nearly every one is making some repairs. The season just past has been the most prosperous for many years and several mortgages have been lifted in consequence. There is a big demand for roses and carnations which cannot be supplied at home and another good season seems in sight.

J. Hoitont, formerly in the business here, has enlisted in the army.

C. Anderson, doing business as the "Hill Florist," has disposed of his store fixtures and discontinued.

Aug. Vogt, Otto Hieserborn and C. F. Haupt were recent visitors at Milwaukee.

E. F. Lemke is building a new office and store room.

C. Bussjaeger has his new rose houses about completed.

R. C. Seeger will build a violet house this season.

Messrs. Sluis and son, of the seed firm of Sluis & Groot, Eukhuizen, Germany, were recent callers on the trade here.

FELIX.

Filling Greenhouse Benches.

Referring to recent correspondence on this question, Mr. John Burton writes as follows:

Our houses are all built with the center walk opposite the door; this walk we use for taking out and putting in the soil. For doing this we use wheelbarrows, which we can empty directly into the center tables on each side of the walk we are wheeling on. The front and back tables on the outside of the house are generally small, and we shovel the soil into these from the center tables. I think this plan the quickest I have seen for taking in soil. We can, with ten men, fill the benches in a house 150 feet long by 21 feet wide, in one hour and fifteen minutes. To do this the men have to work very hard, which they seem to prefer rather than have so hot a jobdrag along for several hours. We of course appreciate this, and allow them an extra half hour or so on such days.

We find that the taking out and the putting in of the soil does not occupy so much time as the cleaning up and get-

ting ready for the new soil. We think this should be thoroughly done. After the old soil is out, we carefully scrape off all that remains on the benches with trowels and hoes, then sweep thoroughly, do any repairing necessary to the benches and afterward put men or boys under the benches to scrape out the loose soil wherever it may be found in the house. We then whitewash thoroughly with a thick coat all the woodwork in the house that is not painted. Then we sprinkle air-slaked lime on the floors all over the house. If the house is not adjoining other houses with plants in them, we burn five or six pounds of sulphur in it, with the hope of killing any insects that may be left, and then consider it ready for the new soil.

EXTRA HEAVY Clean Stock!

Kentia Belmoreana

6-in., 5 to 7 leaves, ... \$15 to \$24 per dozen.  
5-in., 5 to 6 leaves, ... 12 ..

Kentia Fosteriana

6-in., 5 to 6 leaves, ... \$12 to \$18 per dozen.  
5-in., 4 to 5 leaves, ... 9 to 12 ..

FIELD GROWN CARNATIONS...

A fine lot will be ready for Sept. delivery.

THE COTTAGE GARDENS

QUEENS, N. Y.

VERY CHEAP AND FINELY SHAPED BELGIUM PLANTS

AZALEA INDICA, very fine stuff, well budded, \$3, \$4, \$5 to \$20 per 100.

AZALEA RUSTICA, flure pleno (double), well budded, \$4, \$5, to \$8 per 100.

AZALEA MOLLIS, bushy plants, well set with buds, \$2, \$3 to \$5 per 100.

AZALEA MOLLIS, hybrid (single rustica), well set with buds, \$3, \$4 to \$8 per 100.

RHODODENDRONS, grand stuff, well set with buds, \$3, \$4, \$5 to \$8 per 100.

Palms, Dracenas, Aspidistras, etc., etc. All the above are of the best market varieties.

JEAN BRACKE, The Nurseries

LOOCHRISTY, nr. Ghent, (BELGIUM).

E. G. HILL & CO.,

RICHMOND, INDIANA.

Cycas Revoluta Stems

Popular sizes, 3 to 6 lbs each, ..... 10 ets. per lb.

Please Mention the American Florist.

Azaleas THE FINEST STOCK IN THE WORLD

Palms SANDER,

BRUGES, BELGIUM.

Bay Trees

AGENT

Araucarias A. DIMMOCK,

60 Vesey St., NEW YORK.

10,000 LATANIA BORBONICA...

3-inch pots, showing two character leaves, fine stock, ready for 5-inch pots, \$9.00 per 100; \$80.00 per 1000.....

5,000 Latania Borbonica

4-inch pots, with two good full leaves. Strong plants ready for 6-inch pots, \$12.50 per 100; \$110 per 1000.

Sago Palms

Fine stock, good leaves, \$3.00, \$4.00, \$5.00, \$6.00 per dozen and upwards. This is the best money making palm in the market.

Will send samples of any size on receipt of price.  
All the above stock must be sold at once on account of removal.

Critchell's

B. P. Critchell, Manager

Cash with order, please. Cincinnati, Ohio.

**PALM** ←  
*Seed.* FRESH ON HAND  
All kinds PHOENIX SEEDS  
...of  
A New Shipment of.....

Kentia Belmoreana and Forsteriana will arrive in a few weeks.

J. L. SCHILLER 404 EAST 34th STREET, NEW YORK CITY.

THE FINEST WINTER FLOWERING PLANT OF THE CENTURY

Begonia Gloire de Lorraine

THIS fine variety keeps up a succession of bright rosy pink blossoms throughout the Winter, and is invaluable for florists' work. H. B. May, who was the first to bring this striking novelty into popularity, holds the finest stock in the world. Price \$20.00 per 100, packed free. Orders for export carefully packed.

H. B. MAY, Dyson's Lane Nurseries, Upper Edmonton, London.

COCOS WEDDELIANA.

Each  
1 plant 4-in. pot 15-18 inches high, 40c  
1 plant 5-in. pot 24 inches high, 75c

JOSEPH HEACOCK, WYNCOTE, Philadelphia, Pa.

ASPARAGUS

50,000 plants in 2 1/2-inch pots, \$5.00 per 100. Express; 24 for \$1.50 by mail. . . .  
Specimens for 8-inch pots, 56 per 12.

A. BLANC & CO. SPRENGER. PHILADELPHIA.



# To Make a Ten Strike Start Your Ball Right.

**T**O make money make the first dollar in the buying. Barnard's Purchasing Department for Florists furnishes information about lowest factory prices on Glass, Pipe, Fittings, Paint, Tools, and other material used by florists. We have already saved our friends hundreds of dollars on such merchandise and thereby earned the good will of the trade. It is an accommodation worth while considering. Write and investigate.

## OUR SPECIAL PRICES on Fall Bulbs

margin. Please try us. Ready now: *Lilium Harrisii*, 5-7 \$4.25 per 100, \$37.50 per 1000; 7-9 \$8.00 per 100, \$75.00 per 1000. *Freesia Refracta Alba* (Bermuda grown), 65c per 100; \$5.50 per 1000. *Oxalis Bermuda Buttercup*, \$1.25 per 100, \$8.50 per 1000.

Fancy strain of *Primula*, *Cineraria* and *Calceolaria*, 50c per trade package.

**PANSIES.** Barnard's Florist Mixture, trade pkt., 25c; 1-8 oz., \$1.00, ready now.

SPECIAL PRELIMINARY  
PRICE LIST  
FREE FOR THE  
ASKING

**W. W. BARNARD & CO.,** 161-163 E. KINZIE ST. CHICAGO.

### MEXICAN BULBS

We are looking orders for Fall delivery of *Amaryllis*, *Milla*, *Bessera*, *Cyclobothra*, *Tigridias*, etc. Send list of wants for estimates. Catalogue firms will find these bulbs cheap for arranging attractive collections.

**Cacti and Orchids**—We keep a supply the year round for attending to orders from florists.

**Mexican Parrots**—This is the last month we receive orders. Double Yellow Heads, \$40 per doz.; Red Heads, \$15 per doz. Florists dealing in birds will find these cheap import prices.

J. A. McDOWELL, P. O., Box 167, City of Mexico.

### Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.  
RUDOLPH VAN TIL & CO.,  
Hillegom, Holland.

American Representative  
**L. C. BOBBINK, Rutherford, N. J.**  
ASK FOR CATALOGUE.

### BULBS For FLORISTS.. For SEEDSMEN.

**VAN ZANTEN BROTHERS,**  
HILLEGOM, - HOLLAND.

### CHINESE PRIMROSE ...SEED...

Greatly improved and well-known to be of the very finest grown. Packets put up specially for Florists, of best single and double varieties, 400 seeds, \$1.00; 1/2-pkt., 50c. Plants ready in August, at \$2.50 per 100.

*Cineraria* seed of large flowering dwarf varieties in choicest mixture, pkt., 25c; 6 pkts., \$1.00.

*Primula obconica*, pkt., 1000 seeds, 35c.  
*Primula floribunda*, fine yellow, pkt., 25c.  
JOHN F. RUPP, - Shiremanstown, Pa.

### Now Ready

THE American Florist Company's **DIRECTORY** of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price \$2.00; in flexible leather binding, \$3.00.

American Florist Company,

324 Dearborn St., Chicago, Ill., U. S. A.

## NEW CROP PANSY SEED

VAUGHAN'S

### "International Mixture"

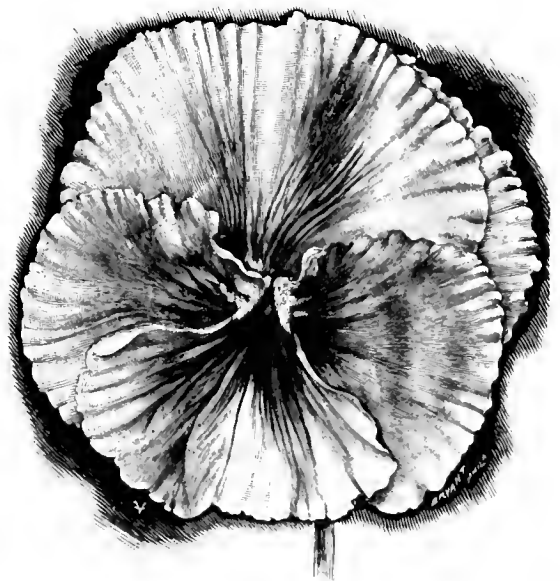
Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price, per oz., \$10; 1-2 oz., \$5; 1-8 oz., \$1.50; trade pkt., 50 cts. (less 10 per cent for cash.)



VAUGHAN'S

### "Giant Pansy Mixture"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. Price, per oz., \$4.00; 1-4 oz., \$1.25; 1-8 oz., 70 cts.; large trade pkt., 50 cts.



### SPECIAL MIXTURES

We shall be pleased to make special mixtures for florists who have preferences in the composition and proportions of colors and types.

GIANT TRIMARDEAU, Mixed, oz., \$1.00; 1/4 oz., 30c; pkt., 10c.

"CHICAGO PARKS BEDDING" MIXTURE, oz., \$1.00; 1/4 oz., 30c; pkt., 10c.

SEPARATE COLORS. -For price of these see Special Pansy Seed Circular, sent on application.

## VAUGHAN'S SEED STORE

NEW YORK: 14 Barclay St.

84 & 86 Randolph St., CHICAGO.

**Helpful Reminders.**

If you have hydrangeas in pots, they should be given plenty of elbow room, a top dressing of fertilized earth and plenty of water. They are best set on the ground or in pots sunk in the ground, as benches become too dry and hot in ordinary houses. Hortense T. Hoyt and such varieties that have been blooming are in most cases of no value now except for next season's use and it is best to cut them back. Shake out most of the soil and re-pot with good rich soil, light enough in its texture to insure good drainage. Where the plant has made a strong growth and increased in strength give it a size larger pot; where they have not become pot-bound put them back into the same pot; place in a position protected from wind and they will make a growth now which will form the most desirable buds for next season's development. As the leaves turn color in fall, water should be withheld to gradually dry them out for storing in a cool house. Such plants will be just right for Easter blooming without further treatment more than an increase of temperature and water. For later blooming, it is well to select some of the best plants and give them a shift just before buds begin to expand; it is safer than relying on applications of liquid manure and careful watering of a plant which is in any way crowded at the roots. The cuttings taken off at this time are worth caring for if you wish to increase your stock. Select only the perfectly healthy branches, put them directly into small pots, plunge in a spent hot-bed and shade lightly. This insures them constant moisture and a temperature more uniform than an ordinary cutting bench. When well rooted they can be dried off and placed with other plants. They will make good single blooming specimens for next season.

It is well to start bouvardias now and a bench on which Perle roses do well will be satisfactory for this useful but neglected plant. It is common to plant out and move in, as carnations are handled, but they are better for being started on benches no later than now. They require good soil, careful staking and considerable pinching back at first, and red spider will take possession if you do not water them properly.

Old plants of euphorbia, poinsettia and such like should be given fresh soil and started into growth now. The difficulty commonly experienced with these plants is in maintaining an even temperature during September and October before firing is commenced. They will turn yellow and drop their foliage if not kept warm and will not be worth the space they occupy, but, like many pretty things, they are so much better for the proper treatment that you ought to arrange one house with which to meet the requirements of such stock.

It is now time to sow several perennials if you have use for them. The best method for arranging a supply for most florists is to prepare one or two long beds of good rich soil and sow the seed in open ground in rows, selecting such varieties as you have most use for. Choose the time that they bloom and form seed and sow themselves as this will always fulfill their requirements and they will adjust themselves for their winter's sleep together, no matter what the varieties are. They can all be covered with leaves and you will not have any care of them until April, when you can uncover and hit a few of each variety into pots for late spring sales. C. B. W.

**YOUNG ROSES PLANTS**

From 2 1-2 inch Pots. Only a few more select ones left.

	Per 100	Per 1000
1500 AMERICAN BEAUTIES.....	\$4.00	\$35.00
2000 BRIDES.....	2.50	20.00
1500 METEORS.....	2.50	20.00

WRITE US FOR SPECIAL PRICES ON WHOLE LOT.  
TERMS CASH WITH ORDER.

**J. A. BUDLONG,** 37-39 Randolph Street, CHICAGO, ILL.

**ROSE PLANTS AS GOOD AS CAN BE GROWN**

We have the following Rose Plants, the same stock as we have planted in our own houses, still on hand and for sale. We guarantee them to be first-class in every respect. . . . .

3000 Am. Beauties.....	2 1/2-in. pots.....	\$5.00
2000 Bridesmaids.....	2 1/2 " .....	2.50
800 Meteors.....	2 1/2 " .....	2.50
500 Brides.....	2 1/2 " .....	2.50

FIRST COME—FIRST SERVED.

**BASSETT & WASHBURN, Hinsdale, Ill.**

**AMERICAN BEAUTY,** Bride, Bridesmaid, Perle, La France, Testout, Morgan, Niphotos, Kaiserin, 3 and 4-inch. Asparagus Plumosus, all sizes. **MARIE LOUISE VIOLETS,** young plants, well rooted. **A. S. MacBEAN, Lakewood, N. J.**

**ROSES BEAUTIES,**  
3-inch, \$6 per 100;  
\$55 per 1000.....  
**MAIDS, BRIDES, METEOR**  
\$5.00 per 100.....\$45.00 per 1000.  
1-inch stock.....\$6.50 per 100.  
**POEHLMANN BROS.,** Morton Grove, Cook Co., Ill.

**ROSES** Clean, healthy plants from 3-inch pots, \$5 per 100.  
Perles, Meteor, Niphotos, Morgan, Wootton, White La France, Bridesmaid, American Beauty from 2 1/2-inch pots.  
**Aspidistra lurida,** 3-inch pots.....\$5.00 per 100  
I will exchange for Smilax plants.  
**JOSEPH HEINL, Jacksonville, Ill.**

**ROSES! AM. BEAUTY**  
Extra strong, clean and healthy plants from 3 in. pots at \$7 per 100; \$65 per 1000. Sample mailed on receipt of 10c in stamps. Cash with order.  
**John B. Goetz** 2165 Mackinaw St., Saginaw, W. S., Mich.

**Memorial Rose** (Rosa Wichuraiana)  
Strong field-grown plants, \$50, \$75 and \$100 per 1000  
**SAM'L C. MOON,** MORRISVILLE, Bucks Co., PA.

**ROSES! ROSES!**  
Brides, Maids, Kaiserin and Meteor from 2-inch, \$3.00 per 100; \$25.00 per 1000.  
Brides and Meteor, from 3-inch, \$5.00 per 100; \$45.00 per 1000.  
50 at 100, and 500 at 1000 rates. Cash with order.  
**ROBERT F. TESSON,** West Forest Park, - St. Louis, Mo.

**ROSES..**  
2-in. per 100 3-in. per 100  
**Am. Beauties .. \$5.00**  
**Perle .....** **\$2.75 4.50**  
**Bridesmaid ... 2.75 4.50**  
**MAPLEWOOD CUT FLOWER and PLANT CO.,** PLEASANT HILL, MO.

**AMERICAN BEAUTY**  
Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100, \$70.00 per 1000.  
**EDWIN LONSDALE,** Wyndmoor, Chestnut Hill, Cash with order. **PHILADELPHIA, PA.** Money Order Office, Stanton H, Phila

**CHOICE 3-INCH PERLES**  
For Immediate Planting.  
Fine stock, which will make you money. Written once. Also some extra nice 3-inch METEORS, and some good BEAUTIES and BRIDES. Samples on receipt of 25 cents in stamps.  
**W. H. GULLETT & SONS, Lincoln, Ill.**

**Chrysanthemums!**  
New and standard varieties. Extra fine plants from 2-inch pots. Send for price list. Discount on large orders. . . . .  
ADDRESS...  
**H. WEBER & SONS, Oakland, Md.**  
Please mention American Florist.

**2,000 Jubilee and Flora Hill**  
In 3-inch pots.... \$4.00 per 100.  
**BRIDES, BELLE SIEBRECHT,** (In 3-in. METEORS AND BEAUTIES.) Pots  
**MAIDS IN 2-INCH POTS.**  
**GEO. A. KUHL, - PEKIN, ILL.**

# Grafted Roses

but strong vigorous stock, American Beauty, 3-inch @ \$10.00 per 100; \$80.00 per 1000. **Bride, Bridesmaid, President Carnot, Kaiserin, Meteor, La France, Perle, Mrs. P. Morgan, Wootton:** These are extra large plants in perfect condition from 3-inch pots @ \$8.00 per 100. If you want a large lot, write us for special price and samples.

American Beauty, Carnot, and Testout from 4-inch pots, in extra fine shape @ \$15.00 per 100.

Bridesmaid, extra fine, 3-inch pots @ \$15 per 100; \$125.00 per 1000.

Also the following varieties, not grafted,

## ASPARAGUS SPRENGERII

From 2-inch pots, \$5.00 per 100; \$45.00 per 1000. This is extra fine stock. Strong 3-inch plants @ 10.00 per 100; \$85.00 per 1000. Write for special prices on large quantities.

## Asparagus Plumosa

Strong 2-inch plants @ \$6 per 100; \$50 per 1000. Strong 4-inch plants @ \$15 per 100; \$125 per 1000.

**Robt. Craig & Son,** Market and 49th Streets, **Philadelphia.**

## Forcing Roses

FIRST-CLASS, CLEAN, HEALTHY STOCK.

We claim **GOOD VALUE** at these prices. Send for samples.

	2½-in. per 100	3½-in. per 100
American Beauty	\$6.00	\$12.00
Papa Gontier	4.00	10.00
Pres. Carnot	4.00	10.00
La France	4.00	10.00
Mlle. Helena Cambier	4.00	10.00
Kaiserin A. Victoria	4.00	9.00
Perle des Jardins	3.50	9.00
Brides	3.00	8.00
Bridesmaids	3.00	8.00
Meteors	3.00	8.00
Clothilde Soupert	3.00	8.00
Mosella	3.00	8.00

Asparagus Sprengerii, 2-in. pots, strong... per 100, \$5.00  
 Asparagus Plumosa, 2½-in. pots, fine stock " 7.00  
 Boston Fern 2½-in. " " 5.00  
 Nephrolepis Exaltata, 4-in. " " 15.00  
 Ferns in assortment, 2½-in. " " 4.00  
 Araucaria Excelsa, 6-in. pots, 15-18-in. high @ \$1.50 each  
 Cocoa Weddelliana, 3-in. pots " @ \$2.50 per doz.  
 Kentias, Arecas, Latanias, etc., large quantities in all sizes. Write for Special Prices, on sizes you want.

## VAUGHAN'S SEED STORE,

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

## SURPLUS STOCK.

PERLES, 3½-inch, very strong... \$5.00  
 BRIDESMAIDS, 3-inch, very strong... 4.00  
 SMILAX, 3-inch... 1.50  
 DRACENA INDIVISA, 2-inch... 1.50  
 WATER HYACINTHS... \$1.00 per doz.  
 Will have some good MARIE LOUISE and CALIFORNIA VIOLETS out of 3-inch pots to sell. Write for prices.

All stock perfectly clean. Cash with order from unknown parties.

**JOS. M. SMELY,** Successor to Roscoe Saunders.

354 S. FOURTH ST., AURORA, ILL.

## FORCING ROSES

	2½-In.	3½-In.
BRIDE	\$2.50	\$22.50
BRIDESMAID	2.50	22.50
METEOR	2.50	22.50
White, Pink and Yellow Rambler, same		4.00
Moonylines		\$20.00; Alternantheras \$18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

We like to have you tell our advertisers that you read our paper.

# Rose Plants

OUT OF 2 1-2 INCH POTS.

	Per 100	Per 1000
AMERICAN BEAUTIES	\$5.00	\$45.00
METEORS	3.00	25.00
MAIDS	3.00	25.00
PERLES	3.00	25.00

## WIETOR BROS. SUCCESSORS TO ROGERS PARK FLORAL CO.

Wholesale Growers of...

51 Wabash Ave.

CUT FLOWERS ROSE PLANTS...

CHICAGO

## 40,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY	LA FRANCE	PRESIDENT CARNOT
3-inch pots, \$8.00 per 100.	4-inch pots, \$12.00 per 100.	
METEOR	KAISERIN	SUNSET
PERLE	MME. HOSE	NIPHETOS
BELLE SIEBRECHT.	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 1000.
		BON SILENE BRIDE

J. L. DILLON, Bloomsburg, Pa.

## ROSES

KAISERIN, 2½-in. .... \$3.00 per 100  
 BRIDES, 3½-in. .... 4.00 per 100  
 BRIDESMAIDS, 3½-in. .... 4.00 per 100  
 Very choice; grown for our own use. May be returned at our expense if not satisfactory.

BRANT & NOE, Forest Glen, Ill.

## Surplus Roses

Brides, Bridesmaid, Perles and La France; fine healthy stock @ \$4 per 100; 4-inch pots, \$6.

CRABB & HUNTER, 509 Madison Ave. GRAND RAPIDS, MICH.

## ROSES.

About 4000 good, healthy plants, in 4½-inch pots, AMERICAN BEAUTY, BRIDES and MAIDS.

M. McNULTY, (care W. Tilden), MADISON, N. J.

## ROSES. ROSES.

Strong, healthy stock such as we use for our own planting.

300 PERLE	3-inch pots, \$5.00 per 100.
175 SUNSET	
100 METEOR	
300 SIEBRECHT	
135 Pres. CARNOT	2-inch pots, \$3.00 per 100.
400 TESTOUT	
150 BRIDESMAID	
300 BRIDE	
500 PERLE	

L. L. MAY & CO., St. Paul, Minn.

## Surplus, Clean, Healthy Stock.

150 Poinsettias	4-inch.
200 Poinsettias	2½-inch.
175 Roses, Perles	4-inch.
300 " Niphetos	4-inch.
100 " Brides	4-inch.
500 " Maids	4-inch.

CHAS. FRUEH, 1116 Hoyt St., Saginaw, Mich.

Omaha.

PREPARATIONS FOR THE GREAT CONVENTION BOWLING MATCH.—KRUG PARK THE SCENE OF THE SPORT.—CHOOSING OMAHA'S REPRESENTATIVE TEAM.

The bowling florists met Tuesday evening, July 5, to consider methods of choosing players for the team to represent Omaha in the big championship contest at the S. A. F. convention, and the following plan was adopted: It was agreed that the six players making the highest scores in the next fifteen games be the team, and the individual making highest score during this series be captain. Krug park, a pleasant suburban retreat, was chosen as the place to test the skill of the players. This park is pleasantly located on high ground and has a fine bowling alley, new and in tip-top condition. It is above ground and the pleasant Nebraska breezes fan the players as they "roll."

Three games of this series were played July 11 and the following were the scores made:

	1	2	3	Ave.
Louis Henderson.....	167	136	122	142
J. H. Hadkinson.....	127	146	129	134
A. Donaghue, Sr.....	131	102	167	133
G. Swoboda.....	150	103	145	133
L. C. Chapin.....	126	123	146	132
J. Wilcox.....	136	127	130	131
W. R. Davey.....	104	141	136	127
J. A. Shaw.....	171	111	97	126
Geo. Zimmer.....	113	106	106	108

As seen by above, Mr. L. Henderson holds first place and Mr. J. A. Shaw the honor of highest score made. Considerable interest was added to this series by A. Donaghue, Sr., putting up a fine gold headed cane for the highest score, which J. A. Wilcox promptly offered to match with a silk hat. Monday evening of each week was chosen as the time for these contests.

J. Austin Shaw is at the exposition in charge of Siebrecht & Son's exhibit of palms and plants, the only display of this character made by any florist east of the Mississippi. J. H. H.

DETROIT, Mich.—A. Strittmatter, the city florist, has a very pretty piece of work in the bedding about the city hall. The plants used in the work are said to have a value of \$6,000. There are some splendid specimens of palms, a rare collection of cacti, hundreds of cannas and whole regiments of geraniums and other bright bloomers. The lettering about the soldiers' monument is another of florist Strittmatter's successes.

## GERANIUMS

Low stocky plants in bud and bloom. Braunt, Pilot, Emile de Girardin, Mrs. Hayes, Chevalier, 3 1/2 and 4-inch pots, \$5.00 per 100. Gold Bronze, \$5.00. YELLO ALTERNANTHERA, 2 1/2-10-1/2, \$3.00 per 100. BEGONIA VERNON, 10-3-1/2, \$5.00 per 100. WILLIAMS BAY FLORAL CO., Williams Bay, Wis.

When writing mention American Florist.

## MARIE LOUISE VIOLETS

ROOTED RUNNERS

\$2.00 per 100, \$15.00 per 1000.

## I. B. COLES

WOODSTOWN, N. J.

## FIELD GROWN CARNATIONS.

GEO. HANCOCK & SON, Grand Haven, Mich.

## HERR'S PANSIES

SEND FOR REASONS WHY THEY ARE THE BEST.

...SEED...

Ready now at \$1.50 per 1/4 oz.

...PLANTS...

September to January; 75c per 100; \$4 per 1000.

...SMILAX...

Ready now, 75c per 100; \$5 per 1000.

Sample plants for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

## CHRYSANTHEMUMS.

Standard varieties, \$2.50 per 100. A list of varieties furnished on application.

	Per 100
CYPERUS ALTERNIFOLIUS, 2 1/2-inch pots.....	\$2.50
CYCLAMEN, white, pink, red, and white crimson eye, 2 1/2-inch pots.....	5.00
GREVILLEA ROBUSTA.....	2.50
GERANIUMS, fine plants, 2 1/2-inch pots, new and standard sorts (vars. on application).....	2.50
ASPARAGUS PLUMOSUS NANUS, 3-in. pots.....	8.00
" SPRENGERII, 2 1/2-in. pots.....	6.00
" TENUISSIMUS, 4-in. pots.....	10.00
VINCA MAJOR VAR., 3-inch pots.....	4.00
SMILAX, 2 1/2-inch pots.....	2.50

NATHAN SMITH & SON, Adrian, Mich.

## Cannas.

A limited quantity of each, from 2 1/2 and 3 1/2-in. pots, to close out at \$3.00 per 100. Aphosce Bouvier, Austria, Italia, Discolor, Exp. Crampel, J. D. Cabon, J. W. Elliott, Mrs. J. M. Samuels, Midway, Madam Crozy, Paul Marquant, P. J. Berckmans, Sophie Buckner, Stella Kanst, Star of '91, F. R. Pierson, Madagascar, Mrs. P. L. Ames, Mme. A. Bouvier.

### VAUGHAN'S SEED STORE

Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

## CANNAS—Last Call

A few Austria Cannas left; will close out @ \$1.50 per 100; \$10.00 per 1000.

The Conard & Jones Co., WEST GROVE, PA.

Please Mention The American Florist.

## VEGETABLE PLANTS.

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The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; require no better evidence of superiority. Every florist should be sure to sow it this season. Per trade pkt. of 3000 seeds, \$1.00; half pkt., 50c. A pkt. New Forget-Me-Not, "Jewel," with every order.

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The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

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Always reliable. None better. Very finest mixed, \$1.00 per pkt of 2500 seeds; \$5.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, \$1.00 per pkt. The above all grown from very finest stock. Cash with order.

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### JULY 29

the Nickel Plate road will run an excursion to Chautauqua Lake, at one fare for the round trip. Write to J. Y. Calahan, 111 Adams St., Chicago, for particulars. (42)

### EXCURSION TO CHAUTAUQUA LAKE

over the Nickel Plate road July 29th, at one fare for the round trip. By depositing tickets with Secretary of Chautauqua Assembly, same are available for return passage within thirty days from date of sale. City ticket office, 111 Adams St., Chicago. Van Buren St. Passenger Station, Chicago, on the loop. Telephone Main 3389. (43)

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will sell excursion tickets to Chautauqua Lake and return on July 29th, at one fare for the round trip, with return limit of thirty days from date of sale by depositing tickets with Secretary of Chautauqua Assembly. Tickets good on any of our through express trains. Cheap rates to many other points East. Communicate with this office, 111 Adams St., Chicago, for any further information desired. Van Buren Street Passenger Station, Chicago, on the loop. Telephone Main 3389. (44)

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IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN—CIRCULAR FREE—SKABCURA DIP CO. CHICAGO.

Kill AND SAVE THE BLOODS the Bugs! QUICKLY DOES IT.

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A Complete Catalogue for Florists. Send for One.

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MILWAUKEE, WIS.

THE HARRISII DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 50 per cent.

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This has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

KRAFT PLANT TONIC CO., Rockford, Ill.

Universal Insecticide For Flowers, Trees and Animals.

Recommended and in use by the foremost florists and nurserymen in the land.

For Sale at the Seed Stores.

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BOTTOM PRICES.

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THE BEST FOR ALL Florists' "ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE FOR SALE BY SEED STORES FOR FREE CATALOGUE WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO LOUISVILLE KY

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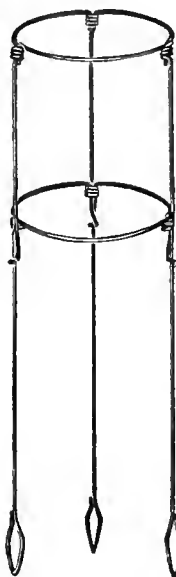
Easily and thoroughly exterminated by my non-poisonous and odorless powder. Results guaranteed. 1/2 & 1-lb. pkgs., \$6 and \$9 per doz., 40 per cent. disc. F. O. B. Boston.

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QUEENS, N. Y., Feb. 16, '97.  
MR. THERON PARKER, Brooklyn, N. Y. Dear Sir:— I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quick and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.

Very truly yours,  
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MR. THERON PARKER, Dear Sir:— Your wire stake is certainly a gem. Without hesitating we indorse it as an up-to-date carnation support. Yours truly,  
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W. HOBOKEN, N. J., Feb. 18, '97.

MR. THERON PARKER, Brooklyn, N. Y. Dear Sir:— It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am  
Yours truly, E. ASMUS.

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ED. AM. FLORIST:—Will some of your readers kindly advise me in regard to the use of refined coal oil for fuel? Can it be successfully used in a small return-flue boiler? What would be the comparative cost of refined oil at ten cents per gallon, hard coal at ten dollars per ton and soft coal (very poor grade) at from three dollars to three dollars and fifty cents per ton? Crude oil not obtainable.

J. E. M.

I have never seen a burner adapted to the use of kerosene that would answer for a large heater, but as we now have wickless kerosene burners, made in something the same way as gasoline burners, which would answer for small heaters, I can see no reason why larger ones could not be used. If the fire pot is a large one it might be possible to place three or four burners under the boiler. I have had no experience with oil as a fuel for heating greenhouse boilers, but should think it would be more expensive at the figures named than coal.

L. R. TAFT.

MINNEAPOLIS, MINN.—At the state fair in September the Minnesota Horticultural Society will offer, among other premiums, \$50 for the best collections of greenhouse and decorative plants. There will also be a large premium list for cut flowers.

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Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

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We have in stock and can ship immediately:

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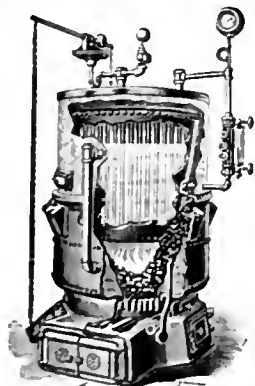
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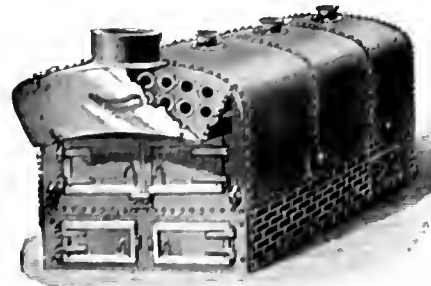
is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

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Send for price list of Standard Flower Pots, Hanging Vases, Seed Pans and Cylinders for Cut Flowers  
Lawn Vases, 17x17-in., \$1.00; 19x20-in., \$1.50;  
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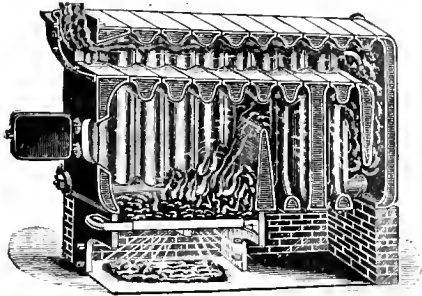
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**Fire...** Who take the right course and dispose of surplus stock through the advertising pages of

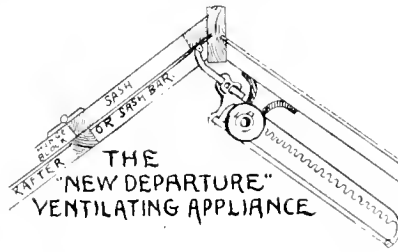
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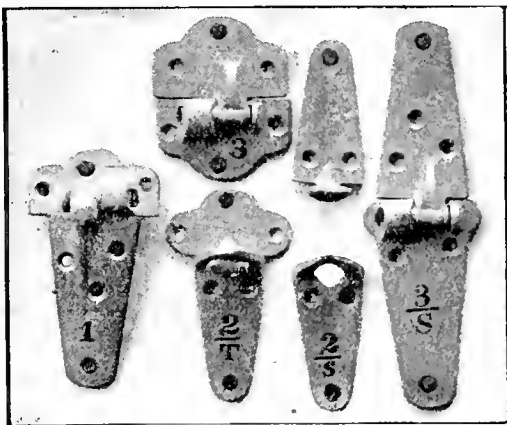


Best and Cheapest on arth.



This iz mi Pictur.

*I take mi pen in hand to tel the Florists that i hev got up sum good things fur them to use in green-houses, i aint mutah on Buck Lam in, but i am sum at inventin things fur to help Florests out.*



THE EVERLASTIN HINGE.

*Now if u use one ur mi Bilers u wil save 1/2 ur Koler Bil. uze 2 an u wil save it awl an if u git 3 u wil have Koler to sel. i have the Best an chepiest Sash lifin machine, an the Best Sash Hinges what is, write me an i wil tel u al about em. mi name is, J. O. Armody, i live in Evansville Indiana, which is ease to Posy Kounty*

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.

**THE A. T. STEARNS LUMBER CO.,**  
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**OUR SPECIALTY.**

**LARGE STOCK PROMPT SHIPMENT.**

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WRITE FOR LATEST PRICES

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WRITE FOR ILLUSTRATED CATALOGUE  
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**CHICAGO HOUSE WRECKING CO.**  
Largest Mail Order Depot for New and Second-Hand Material in the World.  
W. 35TH & IRON STS., CHICAGO.  
Write for our free illustrated catalogues.

Pittsburg.

TRADE SLACK WITH NO SIGN OF IMMEDIATE IMPROVEMENT.—BROUGHT ENDANGERS FIELD STOCK.—FLORISTS GO VISITING.—SUICIDE OF BELLA BECKER.

Trade still remains very slack and will, in all probability, continue so until fall, at least none of our florists look for any improvement before that time.

The weather has been very unfavorable for outdoor stock for some time, day time very hot and nights much too cool for growth, while lack of rain will soon necessitate watering, a very troublesome as well as an expensive measure in most cases. The trees in the parks are showing the effects of the dry weather, too, many of them dropping their leaves as if it were autumn.

On Sunday a number of the florists, with their wives visited Mr. and Mrs. Charles Hoffmeyer at Carnegie. There were about twenty-five in the party, and they were so royally received that they will, in the near future, call on others of the florists. Mr. Fischer, of Castle Shannon, will be the next to be visited.

Mrs. Bella F. Becker, who has been conducting the floral establishment in the East End formerly run by her husband, E. H. Becker, committed suicide on Saturday last by drinking carbolic acid. Trouble of a social and business nature was the cause. REGIA.

CANANDIGUA, N. Y.—One must search afar to find a neater small establishment than that of A. C. Cappon, who grows an infinite variety of stock beneath his 5,000 feet of glass. He has a down town store and reports an excellent season's business with prospects of a large fall trade.

TWEMLOW'S Old English Glazing Putty

INVALUABLE FOR



THE GREENHOUSE

Semi-Liquid. Used in Bulb or Machine.

15 GALLON CANS AND LARGER PACKAGES. It has no equal probably for Greenhouse work.

Hammond's Paint. GREENHOUSE WHITE.

For 20 years many Florists throughout the United States have used this paint. The purest and most durable that can be made.

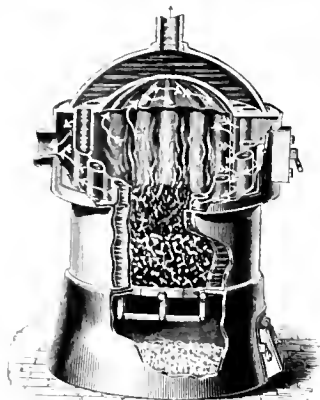
At prices to the craft, that will pay to use it.

EVERY GREENHOUSE MAN SHOULD TRY THIS PAINT.

BENJAMIN HAMMOND,

PAINT AND PUTTY SHOP WORKS

FISHKILL-ON-HUDSON, - NEW YORK.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW.



CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

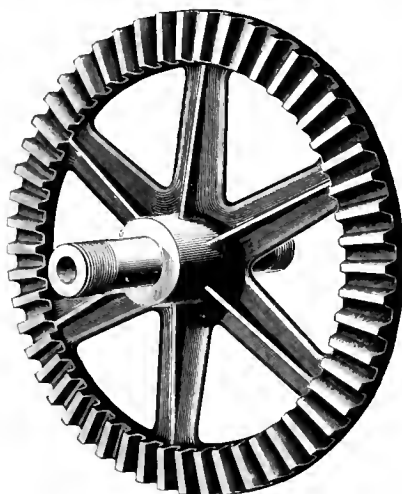
THE STANDARD OF THE WORLD.

SEND FOR FLORISTS' CATALOGUE AND PRICE LIST FREE UPON APPLICATION.

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NEW YORK CITY BRANCH: 48 Centre St.

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Standard Ventilating Machine....

HAS POSITIVELY NO EQUAL FOR

STRENGTH, DURABILITY

...AND NEATNESS

Guaranteed for 10 years. Has a solid wheel and shaft cast in one (malleable iron). No slipping on Line Shaft as the case with all others. Catalogue free.....



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Steam and Hot Water Heating

ECONOMICALLY AND PERFECTLY INSTALLED BY

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CATALOGUES AND ESTIMATES FREE.

EXPERT ADVICE FURNISHED.

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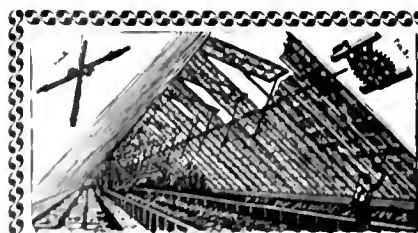
Wheeler-Stenzel Co.

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Greenhouse Glass

Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

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EASY

It's easy to use because the principle is right. A boy can operate it. It's easy to put up because of its extreme simplicity. It's easy to buy because the price is reasonable.....

THE CHAMPION VENTILATING APPARATUS

Catalogue is free. A postal with your name and address secures it. Address

AMERICAN ROAD MACHINE CO., Kennett Square, Pa.

**Faulty Eaves and Gutters.**

ED. AM. FLORIST:—We would like some one in the business to explain some good way of building a greenhouse so that the drip from the eaves will not run down the walls and rot them in consequence. We have our buildings erected as per sketch accompanying this query, and though they do not always leak when glass sweats, they invariably do so when rain falls. We have drip catching strips under the plates, but these do not suffice. The gutters are very troublesome. All the plates are well joined and packed with canvas at the lap joints. Last summer all the gutters were painted with good white lead and oil paint and sanded lightly, but even after several coats, and letting it get very hard, it cracked up, between buildings especially, where the heat seems to be greater, and loosened and now leaks very badly. Is there nothing better than paint for gutters? We have tried asphaltum, but on wood it only dusts and rubs off. If you can name some one who has discovered a remedy for both these troubles, we shall be greatly obliged. SUBSCRIBERS.

When first constructed, our side-hill house, with a slope to the south of thirty-eight feet, gave us some trouble by the failure of the drip groove on the under side of the plate to catch the water that came through the cracks between the butted glass in heavy rains, but it was easily remedied. The groove was enlarged with a plane until it was three-eighths of an inch wide and fully as deep. A three-inch tin gutter was then fitted beneath the plate and the water from this was carried to the outside of the house by means of small conductor pipes. When gutters are to be spliced it is desirable either to put the parts together with long mitres or to have them together with square shouldered joints. If the joints are well painted and put together with screws they should not draw apart. When a water-proof paint is desired one of the best for either wood or iron is the graphite paint. L. R. TAFT.



**Butted Glass.**

This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the

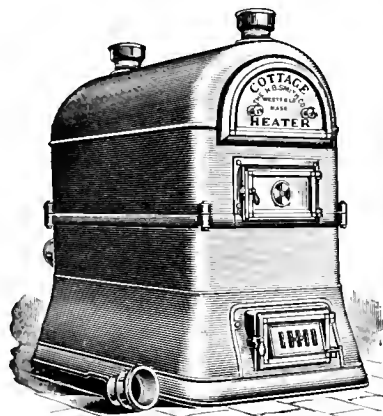
**Clipper Bar.**

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

**Lockland Lumber Co.**

Write for Circulars or Estimates.

Lockland, Ohio.



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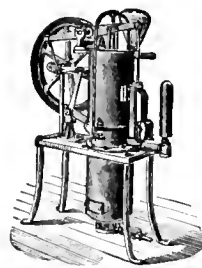


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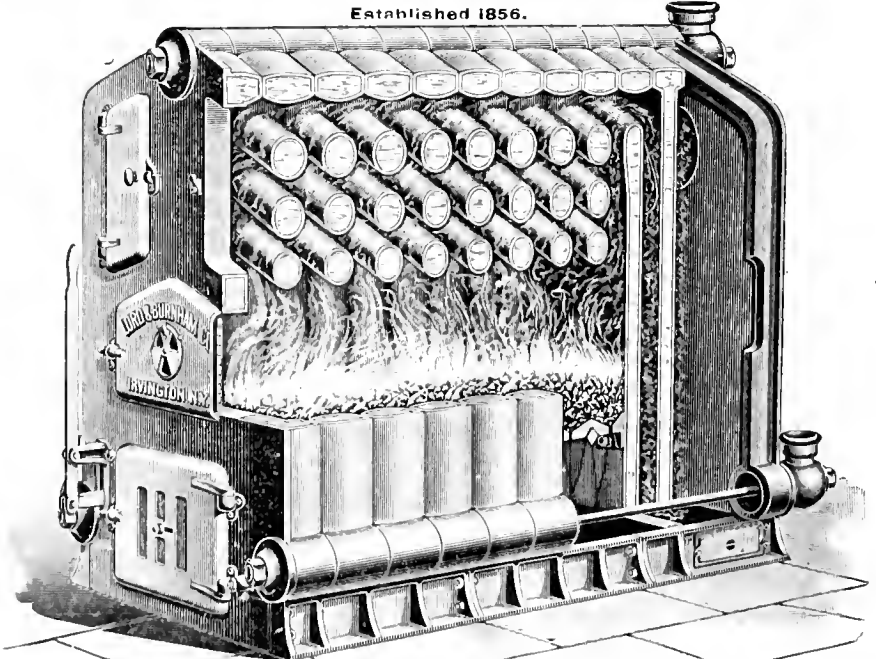
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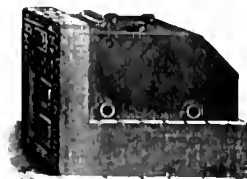
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## THE AMERICAN FLORIST

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CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Omaha, Neb., August, 1898.  
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### Railroad Route Chicago to Omaha.

All members in Illinois and tributary territory, as well as eastern members, who will attend the Omaha Convention, are invited to communicate with the AMERICAN FLORIST or with the undersigned before selecting a railroad route between Chicago and Omaha, as there is in progress a movement which will certainly result in securing for us a rate of railroad fare much better than is yet offered from Chicago west.

J. V. MERRION,  
Vice-Pres. for Illinois.

### Sweet Pea Novelties of 1898.

We are now able to report on sweet pea novelties in this section. But the hot wave, which reached 100 in the shade last Sunday, has forced our vines into bloom beyond their strength, so that on light soil all the varieties have fallen below their normal size, both of stem and blossom. But we have everything as true to color as this climate allows. We represent a latitude from which a very large sweet pea patronage comes and my report must be somewhat severely just for this reason. And from frequent conferences with our most skillful growers I must say that with each succeeding year our patience and perseverance are being more and more sorely tried. By whatever method I plant I wish before I get half through the month of July I had tried some other. Still God's world is the same old world, and the fault must be ours, if we do not succeed.

Everything is in bloom now. As I look over the last Eckford list of novelties—his 1898 set—I see that three of them received first-class certificates, and two others awards of merit, at various English shows. Having seen Mr. Eckford's place in full bloom, and retaining still in mind a delightful picture of his vases of novelties at two of the English shows, I can well understand how he has received the above certificates and awards of merit, and that they were justly given. But it is a simple fact that all we can do the first year with these expensive packets is to get an idea of their color. And never have we had clearer proof than this year that the English climate and ours have very different effects on color.

Here in this set are the Prince of Wales and Colonist. At four feet distance we cannot tell them apart. Both are a bright rose after the order of Her Majesty. The Eckford description of Colonist is "a soft lilac overlaid with bright rose," which I have no doubt the English climate made very beautiful. But grown on even an ideal soil, such as some of our growers have, Colonist and Prince of Wales would puzzle me to distinguish them. Our climate, I suppose, emphasizes the bright rose. It is evident that we can attach but little value to any but the decided self colors. Then there are two "orange" varieties in this set. Chancellor is the most decided orange, and is the best one of the set. Lady Mary Currie seems but a repetition of Penzance. The supposed shade of rosy lilac in the Currie disappears in our climate. Duchess of Sutherland, a pearl white, has the misfortune of being so near like two of the Burpee set that it can hold no place. Duke of Sutherland, which is doubtless made out of

Monarch, can be duplicated by well grown stock of the latter. Black Knight, of which I well remember seeing a magnificent row at Wem, while perhaps being a little deeper in color than Stanley, will practically be only a rejuvenation of the latter, and it will be as easy to hold one up in size as it will the other.

And I ought here to revert to last year's set of Eckford's. It is a disappointment throughout. We have California grown stock of them, so that they ought to show up well. They practically give us nothing new. Queen Victoria, although it has a black seed, gives us only a weak primrose tint. Lady Nina Balfour, instead of having a more delicate color than the true Radnor, comes very badly. The American strain of Radnor, called New Countess, is very fine in color, and must hold the place as a delicate lavender. Countess of Powis is crowded out by Burpee's Oriental. Salopian does have a richer shading of blood-red than Mars, but does not give us that novel shading towards dark cherry which I saw at Wem. Neither do we get from Shazada as dark an effect as we expected. And Triumph is nothing. Prince Edward of York is perhaps brighter than the old Princess Victoria, but hardly better.

All this is an injustice to Mr. Eckford. He is not to blame for our climate. If our American climate registered no temperature higher than 85 and we had a moist ocean air instead of our inland dryness we could duplicate the delicate shadings seen at Wem, and our blossoms would answer to the Eckford description.

Turning to the American novelties our enthusiasm is kept alive, certainly not by all that are being offered on this side of the water, but by the best of them. Probably in some localities the best Burpee novelty this year is Stella Morse, a beautiful light buff cream. But in this section the best one is Lottie Hutchins. It at once attracts admiration. I am happily disappointed in it. Its yellowish, cream ground sets off the soft rose stripes and flakes very prettily. Oriental is a splendid orange salmon and has only Chancellor to complete with. Modesty bouquets beautifully, and there is no question about its deserving a place. As to Sensation, it is unfortunate just now to have so many sorts just bordering on white crowded upon us. Duchess of Sutherland, Sensation and Countess of Aberdeen are not needed, if we retain Modesty, Dolly Varden and Waxyona add no value to the set. The former probably owes its peculiarity of color to the run out condition of the old Butterfly stock, and the mauve stripe of Waxyona we have had more or less of in our vari-

ous Kadnor stock. Pink Cupid is a decided improvement on the white, but it refused to germinate well with me in a border, doing well enough in pots. The Burpee Earliest-of-All strain of Blanche Ferry vindicates its name.

I speak with some diffidence of the Walker novelties, being somewhat prejudiced against the introduction of striped sorts, and preferring that the recognition of Mr. Walker as a novelty maker should depend on a wider endorsement than my personal interest in him. This he is having, and I think his conscientious work deserves it. He has favorable Oregon conditions and for seven years has been in close correspondence with me. He is working his way patiently, lacking the Eckford prestige, and his name as yet carrying no such warrant as the great seed house that is giving us Morse's finest selections from an immense acreage, and that is able to introduce a set of novelties on the largest scale. If a man gets out a catalogue, and there is any merit in his work, so that his introductions appear in our shows, we must recognize him. Bertie Hamilton has a more fixed type than I had thought, the fine wavy markings being of ox-blood red. Mrs. S. T. Walker gives us one-half about like Countess of Aberdeen, and the other half a pretty, faint rosy tinge which I take to be the type of the variety. Minnehaha is simply a good flower of very fine pink veining, and Light Gaiety is of the same order. Of course Mikado breaks up into almost everything of this sort, and altogether these red and rose veined sorts make our rows look as if we have too much of it. The valuable novelties are not along this striped line. If we have good stock of Gray Friar we do not want Dawn.

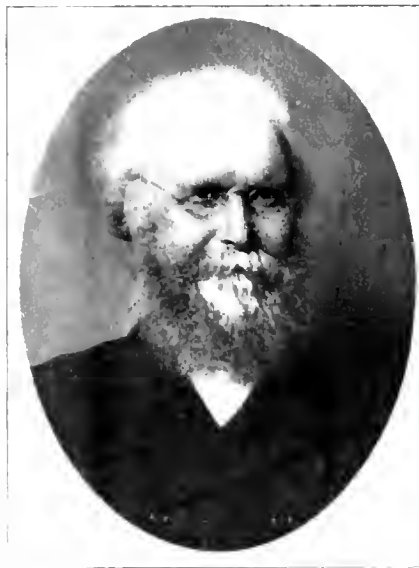
Among the trial sorts sent I find some excellent things. The new blue which the Sunset Co. mark "A" is the best blue yet introduced, and is quite original. The new orange of Burpee's called Gorgeous is grand. Pink Friar is also very pretty. I see no advance made in yellow except as the buff cream of the Stella Morse gives us a richer effect. The buff cream ground shading into soft rose is one of the new trials. One or two odd things, selected apparently from Laxton's Etna are noticeable. It is useless for us to follow the idea of giving minute details of shading or form, for all that can be relied upon is pronounced color and good vigor of habit. The battle now-a-days is to get them into bloom and hold them up till show time is too much of an anxious suspense for us to care much for the art snidings, or the subtle overlaying of one color on another. The first hot wave that catches us after we get the vines out of our muds, makes us wonder where our exhibitor's flowers are coming from. I am waiting to hear how the others fare since our recent spec. of 100 in the shade.

Mass. Clippers. W. T. H. CHURCH.

#### Peter Barr.

Peter Barr was born in Longtown, on the Clyde, April 20, 1829, took the first steps of his horticultural career with James Thomson, of Glasgow. He was nurseryman and seedsman at Glasgow, in 1839. He returned to Glasgow in 1843, gaining a thorough practical knowledge of the business. He was the conductor for several years of the Edinburgh Flower Show, of the Edinburgh and Glasgow Societies, and of Edinburgh, who obtained his first knowledge of the seed trade in 1841, and about the same time as Mr. Barr, in 1846, Mr. Barr secured the first seeds from New

Ireland, where he remained but a short time, going thence to Richard Smith & Co., nurserymen and seedsmen, at Worcester, England, managing their seed department for some years. It was at Worcester that Mr. Barr launched his own canoe upon the business sea, under the title of Atkinson & Barr, but the arrangement did not prove congenial and Mr. Barr retired from the firm to assume the management of the seed business of Mr. Wood, of Worcester, with whom he remained three years. Having by this time become thoroughly experienced and being ambitious to find a larger field for his endeavors he went to London and started as seedsman with Butler & McCulloch. In the autumn of 1861 he began on his own account under the title of Barr & Sugden, King street, Covent Garden. In 1882 the partnership lapsed and the settlement was a contentious one, but was finally arranged and the firm name changed to Barr & Sons, as it is at the present time.



PETER BARR

Mr. Barr's first great work for the advancement of horticultural interests was in connection with the lily family, of which he succeeded in gathering probably the largest and finest collection in existence at that time. The work of cultivating and classifying this important family of plants occupied some years and resulted in a largely increased interest and in the diffusion of much popular knowledge on the subject, as may be seen from the elaborate catalogues he published about this time. This labor by Mr. Barr no doubt facilitated the work on the monograph of the lily family by J. G. Baker and the magnificent illustrated monograph issued at a later period by J. H. D. S. Mr. Elwes showed his appreciation by presenting Mr. Barr with an autograph copy of this splendid work.

The plant with which Mr. Barr's name is most closely associated, however, is the daffodil, a flower which he took up in the same and with which he continued his unremitting labor of love for twenty years, without much public recognition until 1884 when the flower rose in public esteem. At this time a deputation of the Horticultural Society called on Mr. Barr to ask his opinion as to the propriety of a grand conference on the

daffodil. He stated that it would no doubt be successful provided the committee could get Mr. Burbidge, of Dublin, to read a paper, as that gentleman had made a specialty of daffodil literature, and the conference was called that year. It proved a grand success. From that day the flower became more and more popular with the general public and reached its climax when Oscar Wilde gave his lectures on the beauty of yellow as a color. Other artists took up these ideas and the daffodil was accepted as a flower of the first importance from that time. Mr. Barr thinks the only exception to this was the *Narcissus Telamonius plenus* or Von Sion daffodil, which has never been accepted as of high rank by the connoisseurs on the other side of the Atlantic. He has been greatly surprised to find what immense quantities of it are grown and sold in the United States as well as in Covent Garden. The historical matter on the daffodil by Mr. Burbidge and a descriptive list of all known daffodils by Mr. Barr was published by the latter gentleman under the title of "Ve Narcissus," and the book helped to still further popularize the flower.

Mr. Barr began his travels abroad in 1887 in search of daffodils and was successful in enriching his collection with many fine sorts hitherto unknown. At Oporto in Portugal he found two new species and a hybrid of *N. Bulbocodium*, also the Oporto, yellow, and the hybrid *Johnsonii*. In Galicia, Spain, he found the beautiful Santa Maria and a hybrid between *N. triandrus* and Santa Maria. Mount Perdu furnished a fine lot of the beautiful little *N. Pseudo-narcissus moschatus* figured by Parkinson but lost to cultivation since 1629. In the French Pyrenees he found *N. abscessus*, another plant known to Parkinson; also *N. variformis*, and a hybrid of *N. poeticus* and *N. variformis*.

In the following year he traveled the north coast of Spain from Bayonne to Corunna, finding but three hybrids and five bulbs in six weeks, but his long journey was rewarded when he turned back into Galicia and found the beautiful Queen of Spain, a hybrid of Santa Maria and *N. triandrus*. On his return journey through central Spain he found the *N. Bulbocodium citrinus* and *N. minimus*, the latter already known but not generally in commerce. In after years Gibraltar, Tangiers and other points in Spain and Portugal were visited, but no new daffodils of importance were found, although several new species of *preonia* were added to our collections, the most important of which was *Preonia coracea*, a plant then unknown except in herbariums. In 1896 Mr. Barr went through Norway and Sweden, and in the next year through Sicily, Italy, Switzerland and Germany, but the plants found were only of botanical interest.

Mr. Barr is at present on an extended journey through the United States and Canada, and will eventually go to Japan and China, Australia and New Zealand, and home by way of South Africa. He has already visited New York, Boston, Philadelphia, Baltimore, Washington and Pittsburg and is now journeying toward Montreal and other Canadian cities. Buffalo, Detroit, Cleveland, Cincinnati, St. Louis, Chicago and other important cities will be visited by him enroute to California, where he expects to arrive in October.

In all his travels Mr. Barr says he has never experienced such courtesy as has been shown him in America. The Americans he characterizes as the most



SPRAY OF NEW ROSE GARDENIA.

generous and hospitable people on earth; most wonderfully progressive and highly civilized; away ahead of anything the average Britisher has any conception of, and with promise of such a magnificent future for their great country that one becomes lost in amazement in contemplating it.

Those who may have the pleasure of a call from Mr. Barr during his present trip will find him a hale and hearty old gentleman, spry as a cricket and carrying his seventy-two years better than many men two decades his junior. He is full of good stories, and his delightful chuckle after telling one of his dryly humorous yarns is something inimitable. I spent three days with him at Atlantic City and found him a most agreeable and entertaining companion. He was greatly interested in the



splendid physique of the American bathers, both men and women. His favorite expression was "W-o-n-d-e-r-f-u-l!" "Wonderful!" Every time he got that off I thought of Dominic Sampson's "P-r-o-d-i-g-i-o-u-s!" It is pleasant to hear from this keen observer that there is nothing to fear for the future of the Americans physically. They're all right. I wish I could reproduce some of his amusing and shrewd comments on men and things from women and metaphysics down to dogs and black olives, but I could not do him justice. Here in Philadelphia we shall always remember his charming presence, and hope he may long be spared to enjoy

his well-earned holiday and to move through life's autumn carrying with him the sunshine of smiling good humor and finding a cheerful and hearty welcome universal.

#### THE VICTORIA MEDAL.

This gold medal has been awarded to sixty persons who have rendered distinguished services to horticulture during Queen Victoria's reign. Mr. Barr is one of the sixty. This is the first time a cut of the medal has been published, but the portraits of the recipients were issued as a supplement to one of the horticultural journals last year. G. C. WATSON.

#### New Evergreen Hybrid Wichuraiana Roses.

The growth of these plants is remarkable for its freedom, a single specimen four years old covering a space of 240 square feet, with shoots twelve to twenty-five feet in length, completely covering the ground, with its bright glossy foliage and showy, fragrant flowers. The same plant is making thirty-eight new growths of great strength. The foliage of all is leathery in texture, glossy and not only proof against insects, but evergreen. The large, fragrant flowers are produced very freely, and they are extremely useful for cutting purposes, especially when in bud. For trailing or covering ground where nothing else will grow, to cover roots, stumps and stems of trees, walls and trellises, and for forcing as pot plants during spring, especially for Easter, the following varieties will be found valuable:

EVERGREEN GEM—WICHURAIANA · MME. HOSTE.

Not only evergreen, but growing during mild weather in winter. Stems long branching, rich bronze color, covering the ground closely. Foliage fine rich bronze

color, closely matted. Flowers produced singly on stems, yellow, buff in bud, opening to almost white, two or three inches in diameter, perfectly double with delightful sweet briar fragrance. This will be found most valuable for landscape work as well as for cutting.

JERSEY BEAUTY—WICHURAIANA · PERLE DES JARDINS.

Extremely vigorous grower, foliage glossy and of thick leathery substance. Flowers large, single, three inches in diameter, opening pale yellow, with cluster of bright yellow stamens, very fragrant, and produced in greatest profusion, covering the plant entirely, and having the appearance of a yellow Cherokee rose. Great acquisition and the most striking variety of the set.

GARDENIA—WICHURAIANA × PERLES DES JARDINS.

Strong grower with large green foliage, flowers produced singly on stems six inches to one foot long. When in bud hardly distinguishable from Perle, bright yellow, and when open, cream color, and three to three and a half inches in diameter, incurving toward evening to perfect imitation of a gardenia as to shape and color, hence its name. Flowers are delightfully fragrant and produced freely. A grand rose for any purpose.

JOHN N. MAY.

#### Carnations.

Last winter I visited the house of Chas. Swayne, Kennett Square, Pa., best known to the readers of the AMERICAN FLORIST as "The Slope" and described too often to bear repetition now.

The house was planted to violets in the lower, or cool end and the balance to carnations, both violets and carnations

looking as well, or possibly better, than with most of the legion of growers in the vicinity who have the regulation style of houses. There were, however, several growers in Kennett Square who had better stock than that in this house, but had the paths in "The Slope" been wide enough to permit of properly working the stock and the carnations themselves been planted only about two-thirds as thickly in the beds, there would have been better results.

The chief point of merit in this house is its superb ventilation. By opening the top and the lower side at the same time a current of air strong enough to move the leaves on the plants can be obtained and such a current of air admitted among the

carnations whenever the outside temperature is 50° or more is of incalculable benefit as it puts the stomata, or little leaf pores, in good, healthy condition and generally tones up the plants.

The chief objection to this house is the fact that the roof, being one continuous expanse, allows the heat to all rush towards the upper end of the house and makes the heating of it somewhat uncertain on a very windy night.

Mr. Landis, of Landis & Co., of Lancaster, Pa., has a slope almost identical with Mr. Swayne's, but instead of building a continuous roof he is constructing a set of houses on the ridge and furrow pattern, leaving the sides between the houses open. In this manner he will get

the benefit of the superior ventilation and in a measure, counteract the rush of heat to the top, as each house will take its own heat toward the top of that house instead of sending it all to the upper end of the slope.

To get the best results from a house of this kind the slope must be toward the south or, better yet, slightly toward the southeast and the more of an incline it has the better, especially so for the solid bed system of growing carnations. It is necessary to terrace for each house as the building itself should be level, or if the slope is too great for that, simply make each bed level. The days of sloping beds are over so far as all good growers are concerned.

The beds for these houses were thrown up and planted to carnations early in the spring but the glass will not be put on until the last of next month, thus giving the plants the benefit of outdoor culture and not the check which results from replanting in the fall. They have suffered from the very long drought we have had in this section as the place has not been piped for water until this week, but I shall watch them with considerable interest.

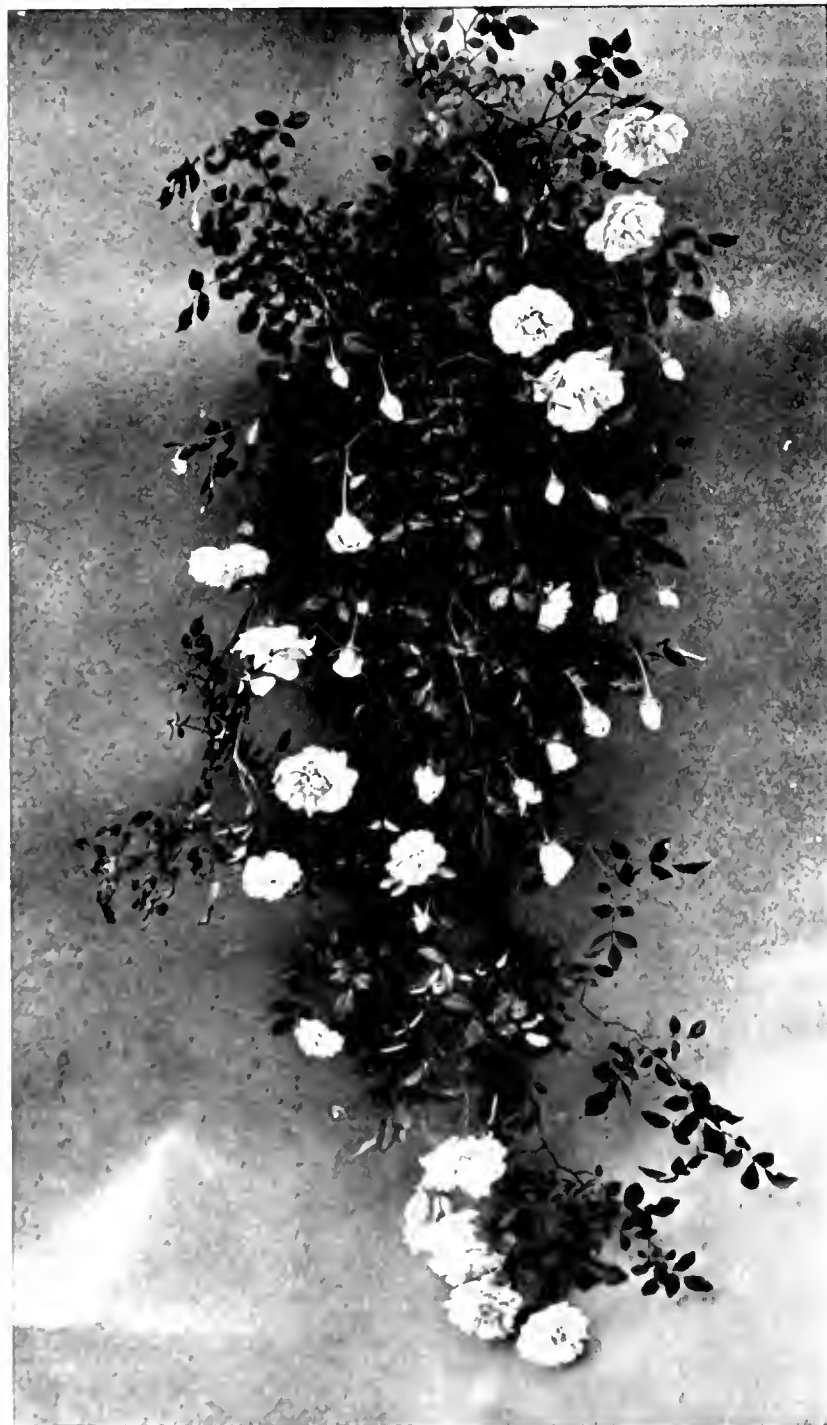
ALBERT M. HERR.

#### Notes and Comments.

It is stated in a recent publication that smilax is never satisfactory in pots. Nothing could be farther from the truth, for I have myself grown equally as good smilax in pots as can be grown in any other way. These were grown in 6-inch pots, and the strings were from seven to eight feet in length, well furnished from the bottom up. I exhibited some plants of that description before the Germantown Horticultural Society some years ago. This statement is not made for the purpose of advocating the growing of smilax in pots generally, but only to call attention to the fact that it is not safe to make such sweeping statements, and at the same time I thought it would not be out of place to endeavor to remove any doubts that may exist in the minds of those who may have thoughts about the matter and hesitated to put them into operation, fearing for the results. And again there might be occasions where a few plants growing in pots could be made a telling feature at a decoration, besides having them in available form for sale should some good soul wish to buy some in that shape. The plants I have reference to were plunged in a solid bed as close together as they could be placed with convenience.

#### AVERAGE TEMPERATURES.

We frequently read in dissertations, more or less learned, upon the growing of plants that an average temperature of — should be maintained. This also was forcibly brought to my mind recently, when, under the head of smilax and asparagus in boxes, it was stated that 63° will be a fair average temperature in which to grow them during the winter. I would like to know the idea intended to be conveyed in such statements. How are we to arrive at an average in such matters, and especially a "fair average?" What can a fair average mean in this particular. Practical growers never make use of such vague expressions. They are explicit as to the maximum and minimum temperatures if it is essential to the success of growing plants under glass, and it generally is, or they will state that a night temperature of not lower than — is necessary. Let all writers upon cul-



SPRAY OF NEW ROS. EVERGREEN GEM.



tural topics hereafter specify the temperatures at which the particular subjects under consideration succeed in best during the night and also during the day, and let a difference be made between bright and cloudy days. The up-to-date horticulturist has no use for meaningless generalities.

E. L.

#### The Crimson Rambler Rose.

The rose *Crimson Rambler*, as seen here in the nursery of Messrs. Ellwanger & Barry, is a magnificent sight just now. For several weeks it has been in full bloom, and in spite of hot and extremely dry weather is still in first-class condition. The plants were put out a few feet apart twelve months ago last spring, and they have made a splendid growth. A trellis had to be erected to support the many strong canes which spring from the base of each plant, and this summer the breaks on these canes are so numerous that the whole forms a perfect hedge. As every side growth terminates in a large, well-shaped panicle of beautiful bright bloom, the whole trellis is a grand, solid mass of crimson roses in all stages of development, from the tiniest bud to a full-sized, open flower. In Mr. Ellwanger's private grounds a similar trellis has been in full bloom for the same length of time, but the growth here is even stronger than in the famous old nursery grounds, and this season's canes are surpassing those of last year in thickness and length, promising to give still better results another season. It is wonderful how persistently the petals adhere to the full blown flower; they do not drop until they are nearly dry, and as the clusters are dense and many-flowered, we cannot notice when a dozen flowers have lost their beauty, because others have filled out the space and covered the unsightly old calyx with their spreading petals. This is truly a grand rose for every imaginable purpose, outdoors or under glass. It behaves well in either case, and we can readily dispose of it at any time of the year either as a pot plant or in the cut state. It is especially recommendable for ornamental purposes in the garden, for we have no other plant of its class which could be equally satisfactory in every respect during June and July. We can train it ten feet high, or, if so desired, we may keep it down to four or five feet by pruning or pinching, and in either case we can rely on a most profuse show of bloom.

J. B. K.

#### Omaha's Great Exposition.

If one wishes to breathe the air of the Riviera with no fear of the Spaniard, he need only sit beneath the snow-decked branches of the fragrant oleanders which surround the east end of the lagoon at the wonderful Trans-Mississippi Exposition. There is a charm cast over the scene as the evening clouds close over the dying sun and you are ushered into an unknown land. One seems to have fallen asleep and is only awakened by a voice coming across the flashing waters of the gem-lit basin below. Hark! What is the voice? Ah, we are surely not in Nebraska! This deep blue, studded here and there by the tardy stars of night, as if ashamed to show themselves to their brighter clustered rivals, which, sentinel-like, illuminate the water's edge; no, not Nebraska; but yes, "Land of the flowing waters," for this is what the Indian name implies.

Filled with legends is this land. Within its precincts were the famous seven cities of Cibola in the land of Quivera, the mys-

tic city of the westlands. These have all long since vanished and are only brought to mind by the annual pageants of the Royal Knights of Ak-Sor-Ben illustrating the mysterious rites of the more mystic people who are said to have inhabited this broad land of blowing winds and ripening grain. But here has arisen another magic city, the Columbian Exposition's only rival, or is this the Phoenix arisen from the ashes of the White City on the lake? These fluted columns and stately colonnades and splashing fountains that send forth liquid jewels of rarest hue only to sink into the limpid azure of the rippling mirror to again appear in dreamy blue that suggests the mist of mountain top; changing then to golden rain, now to ruby gold. Are they the memories of the past here taken shape and substance before our eyes? The rich voice of the Venetian gondolier half startles one who sits entranced as in a dream. Venice, fair Bride of the Adriatic, could you but arouse your sleeping dogs, you would not rest until you had brought



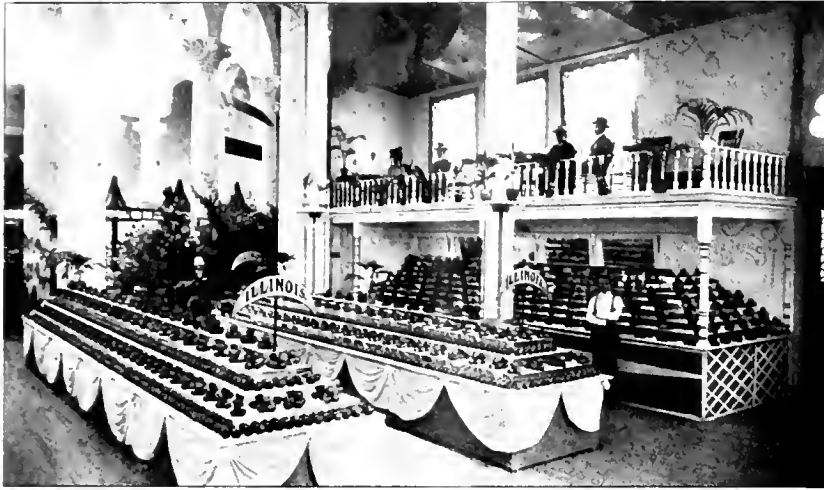
SPRAY OF NEW ROSE JERSEY BEAUTY.

back the column of Neptune in front of the government building at the far end of this western Court of Honor.

When some jostling sight seer recalls us from our day dream let us ramble among the exhibits of Nature's handicraft in the Italian gardens or the vine-decked loggia, for here

The roses fold their silken leaves  
The foxglove shuts its bell;  
The homy snail and the bark  
Spread fragrance through the dell,  
Let others crowd the giddy court  
Of mirth and revelry  
The simple joys that Nature yields  
Are dearer far to me.

Ascend the broad staircase leading to the Casino and find your way around to where the colonnades begin the second curve. Look at the scene before you; an endless chain of incandescent lights creeping around the cornices of each building and the searchlights from the giant See-Saw on Midway flashing from statue to statue along the court. What a beautiful vista presents itself from these Italian arbors! For contrast turn to the simple



ILLINOIS EXHIBIT AT THE TRANS-MISSISSIPPI EXPOSITION.

doric columns supporting the heavy framework festooned and garlanded by the tangled vines of the cobeia, clematis and madeira. Let us go to the end of the arbor and descend the hidden stairway, then follow the semi-circular path overgrown by cannas and bronzy ricinus. The air is sweet as pansies and violets can only make it. The impish faces have turned into bells of silver upon the moonflower's climbing vines, and the place is one of wondrous beauty.

## NOTES ON EXHIBITS.

Horticultural Hall is one of the largest and grandest buildings upon the exposition grounds. The ornamentation, in a frieze extending along the front and sides of the building, is especially attractive and, in connection with the statuary and grand entrance, has an unusually pleasing effect, aside from the plant and fruit decorations, which harmonize so well with the general plan of the building. The vaulted dome, supported by its many-fluted Corinthian columns, holds a peculiar charm for the Trans-Mississippi visitor. Herr Hesser, of Plattsburgh, has arranged a fine display from his famous palm gardens. His *Cycas circinalis* is the grandest plant in the building, and there are many fine specimens on exhibition.

Hadkinson's seedling canna, *The Shell*, is attracting more than ordinary attention from visiting floriculturists; bright green foliage, erect habit, vigorous growth, spreading heads of light straw-colored florets, resisting the fierce rays of the noon day sun, which they seem to actually enjoy, it is just the thing for hot climates.

A. T. Lavin, a former graduate of Shaw Gardens, St. Louis, has taken notes and a number of snap shots of the various exhibits this week. He pronounces *The Shell* a triumph in mass planted effect. Upon his return he will be connected with the Arkansas University and Experiment Station, Fayetteville, Ark.

Cactus King Davey is also the proud possessor of three new seedling cannas, one a rich velvety deep cardinal, a free bloomer, and the largest blossomed plant on the grounds. It has been christened the *Austin*. The second is a leopard some what like *Florence Vaughan*, only lighter and of deeper orange ground, while the third is a gold-edged bright red. He shows a fine collection of cacti in a bed south of the Nebraska building.

W. Atlee Burpee & Co., Philadelphia's energetic seedsmen, have just come into

the hall and show a grand assortment of their choicest sweet peas grown especially for the Exposition at Waterloo, Neb., by J. C. Robinson. They have fifty-two varieties on view. B. F. Bell is in charge and renews the bouquets every other day.

Should you become entangled in the winding labyrinths of the fernery beware of the alligator, the ward of the Iowa exhibit. The monster had a lively frolic the other day and chased "Dad" Erling all over Dreer's lily basin. He only saved himself by jumping upon one of the enormous leaves of the *Victoria regia* and was rescued by the horticultural force after a hard fight. The alligator is now caged and winks the other eye, while "Dad" passes by atar off.

W. R. Roach, representing Jerome B. Rice & Co., wholesale seeds, of Cambridge, N. Y., is visiting the exposition.

Landscape Architect Ulrich spent a few days upon the grounds while enroute to New York from the Yellowstone Park.

J. H. H.

MACOMB, ILL.—Hugh Hills, who is in the florist business at Baraboo, Wis., is visiting at his old home here.

## New York.

CONDITION OF TRADE.—STILL BUILDING GREENHOUSES.—A GREEK'S ADVENTURE.—A VISIT FROM PETER BARR.—DISPLAY AT COTTAGE GARDENS.—BRIEF NOTES.

The heavy fragrance of auratum lilies hangs over every wholesale flower store in the town this week and reaches far out into the street. The wholesalers are glad to part with them, and likewise the longiflorums, for a cent apiece but buyers are not flocking in response. A few boxes of roses come in every morning but not many of them are worthy of the name and the blooms like the boxes get smaller and smaller every day. Roses grown especially for summer demands are not yet in evidence to any great extent and the only stock seen in most places is the degenerate refuse that comes on the plants that have been worked hard all winter to make the pot boil for their proprietor. It has been a rather disappointing season all through for the flower grower and he feels correspondingly dejected in consequence but nevertheless he is adding another house or two again this season, from force of habit possibly—and even the sky-high price of glass will not stand in his way. If the retail man didn't make his money in the winter he cannot do it now; it is unquestionably one of the dullest seasons on record even for this dulllest of all months. The Greeks, alone, do not complain and for the moment their principal occupation seems to be following around a lame member of their fraternity who was the only one left out of six who sailed on the ill-fated *Burgoigne*, and who is duly conscious of the unique pedestal upon which he stands in the eyes of his contemporaries.

Peter Barr, of London, famous as a daffodil specialist and entertaining talker, is in town having just come from a visit to quiet Philadelphia. He who has the honor and pleasure of a couple of hours chat with this renowned horticulturist is lucky indeed and the time passes swiftly in listening to his ready discourse. He is keeping his eyes open as he travels through the "land of the free" and has already come to the conclusion that Americans are marvellously abstemious and temperate in their habits as compared with their Trans-Atlantic cousins,



LOS ANGELES EXHIBIT AT THE TRANS-MISSISSIPPI EXPOSITION.

a discovery which he naturally pronounces "most extraordinary." Mr. Barr's services in the cause of horticulture are attested by the Victoria gold medal which he proudly displays on his breast.

A truly wonderful sight may be seen now at the Cottage Gardens, Queens; acres of geraniums in great variety and comprising all the new and beautiful sorts that have just been introduced. Of geraniums, cannas and carnations together there are not less than ten acres and with Mr. Ward as an escort an inspection of them is both entertaining and instructive.

August Rolker & Sons have taken the agency for the Wannopee Pottery Co. of New Milford, Conn. The specimens of fancy ware they display are very handsome.

The Bennett place at Flatbush is said to have been sold.

Small's new store on Broadway is a beauty.

### Philadelphia.

THE APPROACHING CONVENTION IS A MATTER OF MUCH INTEREST.—BUSINESS IN THE PALM LEAF STAGE.—BOWLING MATTERS.—EDWIN REID'S SOUTHERN TRIP.—VIOLET CULTURE IN VIRGINIA.—A LARGE INDUSTRY EIGHT MILES FROM A RAILROAD.

The Omaha convention is now the chief topic wherever the faithful are gathered and if the fare is reduced to a single rate for the round trip the number going is likely to be materially increased. The bowlers and shooters, as teams, are assured of this rate as they come under the same head as theatrical companies and baseball clubs. Were it not for the distance we believe Philadelphia would be as loyal to the S. A. P. as in former years, and, as it is, we hope to send a good delegation.

The transportation committee, of which John Westcott is chairman, has issued a circular stating the arrangements thus far made for the trip to Omaha. The Philadelphia party plans to take the Pennsylvania train leaving New York Sunday, August 14, at 2 p. m., leaving Philadelphia at 4:30 p. m., reaching Chicago at 5 p. m. Monday and leaving for Omaha fifty minutes later over the Burlington Route. The round trip fare will not exceed \$41.34 upon the certificate plan, and it is yet possible that a one way fare for the round trip may be obtained, which would be about \$10 less. The sleeping car charge is \$7.50 each way.

Business is in the palm leaf stage; they are growing in the greenhouses and waning in the stores. The quality of flowers is much the same as last week; no better, and in the case of Beauties worse. The stock of this rose is now at its lowest ebb, but in a week or so the summer houses will be commenced upon and the quality will gradually increase. Carnations are small and poor in color. Robert Craig & Son have a bench of Flora Hill which is still producing very fine blooms, very much better than any other white. This stock readily brings \$2 per hundred. Prices of all flowers are about the same as last week.

We hear considerable about bowling these days and some scores are noted, which, if made on regulation alleys, are meritorious indeed. It is said that an average of 139 will not be sufficient to win the prize. This is not a high average for a good bowler, but as compared to averages made under the same conditions in Providence it is quite high. The match

there was rolled on strictly regulation alleys; width forty-two inches; length to head pin from toe line sixty feet; pins twelve inches apart from center to center of spots; no ball to measure over twenty-seven inches in circumference. Under these conditions when a game of 200 is scored a bowler has something to be proud of. We are glad to see so much interest being taken and hope the contest will be a record breaker both in number of clubs taking part and in the scores made.

Edward Reid, of this city, has just returned from a visit to his trade in the south. He reports business in the main satisfactory, most dealers saying that they had a good season. With better railroad and express facilities much more trade could be done south of Mason and Dixon's line. Orders, particularly for funerals, have to be filled mostly on a few hours notice. As there are not many good roses or other choice stock grown in the south on account of the soil not being suitable they are compelled to depend on northern cities and complain of the many delays incident to indirect routes of shipment.

Mr. Reid paid a visit to the violet growers of Green Spring Basin, near Gordonsville, Va., about 100 miles south of Washington. This industry was first started by Miss Taylor who commenced with twelve sashes and realized from them the first season \$19 per sash. Now, the number of sashes in this immediate neighborhood is about 1000, the largest grower having 200. Violets are all grown in cold frames, being planted in the frames in the spring so they suffer no change from moving in the fall. The variety grown is Lady Campbell, Marie Louise not doing well there. They had considerable trouble with black spot last season, but their greatest grievance is the low figure to which the flowers have fallen. In many cases shipments did not return enough to pay picking and express charges and it is said that if prices are not better this winter quite a few will give up the business. The growers are mostly well to do farmers and having given the violet considerable attention they have been very successful in getting large crops of flowers. Their shipping facilities are very poor it being eight miles to the nearest railroad station and there is but one train a day. Several streams of considerable size have to be forded, there being no bridges. Violets from this section are received in great quantities during the season in Washington, Baltimore, Philadelphia and other cities. They arrive in Philadelphia about twenty hours after they are picked and while the quality of the flowers is good as to size and color, they generally lack fragrance, and are too short stemmed.

Mr. Reid found time to try his hand at fishing off the Virginia coast and hooked a monster sea turtle, said to have weighed 350 pounds, but after considerable struggling the line broke and all that was left is the story. K.

### Boston.

SATURDAY EXHIBITION.—FINE SHOW OF HYDRANGEAS.—R. M. GREY COMES TO NORTH EASTON.—VISITORS.

The schedule did not cut much of a figure at last Saturday's exhibition; neither hydrangeas, achimenes nor gloxinias were in evidence. There were some good hollyhocks, however, from several exhibitors, those from John L. Gardner being particularly fine. Tuberosus begonia flowers from E. S. Converse and Jas. L. Little

were very good. R. & J. Farquhar made an attractive display of auratum and longiflorum lilies, and there were interesting contributions of miscellaneous flowers from various exhibitors, of whom the veteran Edwin Sheppard was one. When he returned to his home in Lowell he was accompanied by his bosom companion, F. L. Harris, of Wellesley, who went with him to "spend Sunday."

A superb display of large hydrangeas in tubs decorates the lawn about the residence of W. E. Doyle at Cambridge. It is a reminder of Newport.

R. M. Grey has secured a position as head gardener at the Oakes Ames place in North Easton.

Recent visitors: H. A. Siebrecht, New Rochelle, N. Y.; A. M. Rennie, Providence, R. I.

No business now.

### Chicago.

SUPPLY AND DEMAND.—ROSES ARE NOT PLENTIFUL BUT ARE FAIRLY GOOD.—SWEET PEAS A GLUT.—REINBERG'S WILL GIVE THE FLORISTS A HEARTY WELCOME.—SIGHTS AT THEIR CITY OF GLASS.—NOTES OF PERSONAL DOINGS.

During the first days of the week demand was somewhat less than for the week previous, but in the last few days the slight fall in the temperature has in a measure revived the market and things are moving along in fine style. At no time during the week has there been any considerable over supply of anything except sweet peas, and on one day N. G. Axtell, who has a place at Evanston, sold 36,000 of this favorite flower. However, each day has seen basketsful of peas passed over to the tender care of the street fakir.

The supply of carnations is growing somewhat shorter each week and the quality, as a rule, shows a corresponding deterioration. They have sold freely for the past few days but at no fancy price. With some growers the blooms are reasonably good as to color but are small in size, while with others the colors and size are equally off.

Roses, as usual, occupy the center of the stage, and, of course, Beauties play the star part. As a general thing roses are poor and scarce, although from here and there come lots of excellent blooms which sell well at good prices. Beauties are said, by several growers, to be better than is usual at this season of the year, but they are quite scarce. Brides and Meteors are fairly good, but Bridesmaids do not seem to withstand the heat well and are generally undersized, although their color is good.

The call for miscellaneous flowers is light, and while the commission men sell out pretty cleanly, quantities of assorted blooms are at all times to be found in the ice boxes.

Reinberg Brothers have invited the Florists' Club and the trade in general to visit their great establishment at Summerdale to-morrow, Sunday, July 24, and will supply an entertainment which will probably eclipse anything which the florists ever encountered upon their numerous similar expeditions. The party will go by the one o'clock train upon the Northwestern, the hosts having provided a special car, free of expense, for their accommodation. There will be much to entertain the visitors. To begin with, the establishment of the Reinbergs is undoubtedly the largest of the kind in the country. The two brothers have over 600,000 feet of glass and devote it almost

entirely to growing roses and carnations. They will this year bench upwards of 175,000 roses, principally Beauties, and about 70,000 carnations. Planting on the benches is, of course, far progressed in the rose houses and the opportunity to inspect their wonderfully well-kept houses and well-grown plants is not one to be neglected. They aim to have all their carnations benched at the beginning of September. The houses will be made as comfortable as possible for the 200 or more who will doubtless make the tour of inspection on Sunday.

In the line of amusement there is to be a ball game between teams chosen from the players present. This feature of the afternoon is in charge of Phil Hauswirth. The splendid veranda about the home of Peter Reinberg will be utilized for the occasion, for here the refreshment tables will be spread and there will be a bountiful supply of many good things both eatable and drinkable. The party will return by trains at 5:37 or 6:53. The Messrs. Reinberg and their families are desirous of extending a particularly cordial invitation to be present to the ladies of all florists' families.

Some of the finest beds at Lincoln park this year are those of Portia carnations bordered with centaurea. Mr. Stromback says the former have been flowering quite freely of late, and they are certainly attractive as bedding plants.

The aquatics in Washington park are now very fine, nelumbiums, nymphæas and the Victoria regia flowering freely. Where the nymphæas have been given artificial heat, it is noticeable that the flowers are much larger than those grown without such aid.

A. L. Wheeler, M. D., of Mason City, Iowa, local surgeon of the Iowa Central Railway, of the Wheeler Floral Company, was a recent Chicago visitor enroute home from an eastern trip. He reports flower trade as excellent and is building a new rose house with 2500 feet of glass.

The Skabera Dip Company reports a trade which is very gratifying; in fact they have so much business that they are unable to handle it advantageously in their new factory and must soon make still further improvements and additions to their present facilities.

C. L. Washburn, of Bassett & Washburn, who, with his family, is in Colorado, visited the Omaha exposition while on his way west and was greatly pleased with what he saw.

A. E. Crooks, of Benton Harbor, Mich., was a recent caller upon Chicago friends and reported excellent trade upon the east shore of Lake Michigan.

At the last bowling contest but five players presented themselves and some good, bad and indifferent scores were made.

G. H. Pieser, accountant for Kennicott Bros. Co., is on a week's fishing trip in Michigan.

H. M. Sandborn is returning to California after an extended eastern trip.

#### Berlin.

A GOOD TRADING FLORIST. NEW FORGET-ME-GOES. BEACE CALLAS. SEBETHLEI. FLORENCE BLOSSOMS. GARDEN USE OF BELLADONNA MOSS. TULIPA GREIGI. FER-FILIZERS. PROTERANDROUS FLOWERS.

One of the best methods for hanging baskets, which I have seen, is that known as Traylor's Queen. Some very effective plants of this variety are now to be seen here and there, and so far as known, they require no special treatment. A single

cutting makes a plant three feet in diameter within twelve months.

In *Sarothamnus scoparius* we have here a fine flowering shrub, and it is now in full bloom in the Royal Botanic Garden. When this plant is grown near the sea, it attains a height of from twelve to fifteen feet, and during May it is so thoroughly covered with its large yellow flowers that not a leaf or twig is to be seen. In the interior the plant is killed to the ground by the severe frosts which occur about once every three or four years. It likes a sandy soil.

A new forget-me-not, *Myosotis alpestris stricta*, sent out by F. C. Heinemann of Erhart, is attracting considerable attention, and it was awarded a silver medal at the last meeting of the Berlin Horticultural Society. The plant is erect, eight to ten inches high, and densely branched. Each individual specimen measures about three inches in diameter, a mass of bloom from bottom to top. There are three forms of the plant, varying in the color of the flowers, which are either blue, white or rose.

Besides the common calla lily (*Richardia Ethiopica*), many other aroids with dark spathes are now cultivated quite extensively. These "black callas," are much esteemed by some amateurs, although their odor in most cases is not altogether agreeable. A good plant of this class is *Isocharum eximium*, with small lance-shaped leaves. *Arum Discoridis*, however, from Asia Minor, is much more worthy of attention. In general appearance it resembles the white calla, but the spathes are deep purplish, spotted with green at the apex.

Orange blossoms for wedding decorations cannot be had here during the winter months in sufficient quantity, and to meet the demand *Staphylea Colehica*, is forced as a substitute, providing abundance of white flowers which in appearance and fragrance so closely resemble the genuine article that the laity cannot tell the difference. It is said, also, that the flowers of *Prunus Chinensis* are made to do duty for those of the myrtle. *Staphylea Colehica* is a shrub which thrives very well in the open air and blooms here during May, some time before *S. pinnata*, the flowers of which are much like those of the lily of the valley.

For shady situations there is now used a new material, viz., *Cetraria Islandra*, the Iceland moss, which gives good results when used in the right way. I have seen this plant in the yards of hotels, surrounded by large buildings, where one ray of sunshine hardly ever penetrates, and it produces a fine effect with the grass and gravel. A good turf is only possible in such situations when renewed frequently; flowering plants must be replaced weekly, and only such plants as *Phoenix Canariensis*, *Araucaria imbricata*, etc., will survive for any considerable time. But the Iceland moss seems to prefer these conditions.

*Tulipa Greigi* is by far the most elegant plant of the genus in cultivation, distinguished as well by the immense size of the flowers as by the brownish tint of its leaves. It is said that the bulbs make no offsets with us, so that it is necessary to import new stock every year from Central Asia. Whether this be true or not, once imported and properly planted, the bulbs supply a profusion of excellent cutting material for many years without further attention. This is one of the parents of many desirable hybrids, all of which are easily recognized by the tinted foliage of *T. Greigi*. It is a pity that many of these fine bulbous plants from Central Asia,

collected by the famous traveler, Dr. Albert Regel, are not more generally cultivated.

Experiments have shown that the best fertilizer for fruit trees is a mixture of nitrate of potash and phosphoric potash in equal parts. It should be applied to the ground underneath the trees at the rate of four ounces to each ten square feet of space. This fertilizer is now much used in orchards as well as in vineyards and tobacco fields. Some other artificial fertilizers under various names are used in this country successively, but all are manufactured after Prof. Wagner's formula—twelve to fourteen per cent phosphoric acid, twelve per cent nitrogen and twenty per cent potash. This compound has a remarkable effect on the flavor of fruits. Pears, for example, which under ordinary circumstances have only a low culinary value, are equal to the best table fruits when efficiently treated with the fertilizer.

Last spring I was rather surprised with the behavior of a young peach tree on the grounds here. The variety is called Amsden, and while the tree flowered well, it did not set a single fruit. On investigation it was found that there is no other peach tree in the neighborhood, and all the flowers of the tree in question proved on examination to be what botanists term proterandrous, that is, the anthers ripen and shed their pollen long before the stigma of the pistil is ready for fertilization, and thus fruits are impossible, unless pollen from some other source alights upon the reproductive organs at the proper time. But all the flowers of this tree developed at about the same time, and there was no pollen available when it was needed. As the Amsden is an American variety, it would be interesting to learn whether it is proterandrous in the United States. I found that another variety, Reinette, also bears proterandrous flowers, but this remains so long in bloom that it produces fruit every year without external assistance. This proterandry of flowers is a good argument against confining the plantations of a crop intended to fruit or seed to one variety, especially fruit plantations.

UDO DAMMER.

#### Vancouver, B. C.

The florist business for two or three years past did not rush any of us to an uncomfortable degree but the boom which struck the mining camps this spring put more money into circulation and all of us are getting some of it.

In this somewhat remote section the prices for roses, lilies, chrysanthemums, vallis, etc., run from \$1 to \$1.50 per dozen during the winter or rainy season, and somewhat less in summer.

R. T. Robinson, of the Georgia Street Nursery, took an outing through California this spring and made the trip the opportunity to pick up some very fine stock for their establishment. They are building a large rose house, which will be a very considerable addition to their plant.

The Vancouver Floral company has a very complete range of houses and late in June I saw a fine lot of chrysanthemums in bloom in one of them. They said that the flower was selling well, even at this unusual season of the year.

Our own trade has been better this season than ever before, especially for ornamental and bedding plants. We have had an exceptionally large shipping trade and are still shipping large numbers of plants to the interior cities. M. J. HENRY.

## THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.  
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Discounts, 6 times, 5 per cent; 13 times, 10 per cent;  
26 times, 20 per cent; 52 times, 30 per cent.

The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.  
Advertisements must reach us by Wednesday to secure  
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

### Railroad Rates to Omaha.

Notwithstanding the statements to the contrary, thus far no rate has been made to the S. A. F. by the railroads from Chicago, St. Louis, St. Paul, nor from points like Buffalo and Pittsburg west to Chicago, any better than the ordinary one-man thirty-day rate allowed to anybody and everybody. This is manifestly unjust to an association like the S. A. F., with an average attendance of over 600 for the past ten years. Prof. Taylor at the Providence convention certainly made broad promises of liberal rates on account of the Trans-Mississippi Exposition, and instead of realizing on them we are confronted with the highest fares ever known in connection with the annual meeting. The present Chicago-Omaha round trip being \$20, it will be impossible to muster anything like a representative gathering to push this pioneer work in the Great West, but the AMERICAN FLORIST has promised its readers the best possible rate and it still confidently expects to have the fare reduced to \$14.75 or less before August 1, with proportionate reduction from all other points. Efforts are now being made to this end through trunk lines whose managers fully understand the value of such a convention to the west, and when fair rates are secured it will be ample time to select a route, and in such selection we must remember the friends who have aided us in securing these concessions, and we must ask our patrons in all sections of the country to support us in these efforts in their behalf. At the earliest opportunity the AMERICAN FLORIST will announce the result, pending which please let us have your name for earliest advice by mail. We learn as we go to press that a \$14.75 rate from Chicago and return is practically assured. Write us for route.

### American Carnation Society.

An informal meeting of the American Carnation Society will be held in the meeting room of the S. A. F. at Omaha, Neb., Wednesday afternoon, August 17, 1898, at four o'clock. New ideas for our meeting in Philadelphia next February will be in order, and your secretary will enter any new member you can bring into the society. WM. NICHOLSON, Pres.  
ALBERT M. HERR, Sec'y.

SEVERAL thousand persons who wrote in response to the advertisements of the Fairfield Floral Company are receiving their letters, returned by the postal authorities, stamped "fraudulent."

AN excellent European plan hotel at Omaha, omitted from the official list of convention city hostels is the Her Grand, Sixteenth and Howard streets. The rates are \$1 to \$1.50 per day.

### Greenhouse Building.

Vancouver, B. C.—Georgia Street Nurseries, 100 foot rose house.

Kennett Square, Pa.—L. Eastburn, carnation house 22x116.

Bay Shore, L. I.—Nicholas Rail, two violet houses each 11x135.

Mason City, Iowa.—Wheeler Floral Company, one rose house.

Toughkenamon, Pa.—H. Owens, two carnation houses, each 20x100. S. Pyle, two carnation houses 20x100 and mushroom house.

Woodside, N. Y.—Victor S. Dorval, one carnation house 25x126.

Avondale, Pa.—Geo. M. Chandler, one greenhouse, 20x200.

Queens, N. Y.—Cottage Gardens, two greenhouses each 20x160, one propagating house 12x116, and large boiler house.

Springfield, Mass.—M. Aitken, four commercial houses, one 30x200, one 20x100, and two 10x100 each.

Minneapolis, Minn.—C. Buskoeder, conservatory costing \$1200.

Worcester, Mass.—H. F. Littlefield, carnation house 23x50.

Northboro, Mass.—H. A. Cook, carnation house 26x150.

Detroit, Mich.—Greenhouse at pumping station park.

New Britain, Conn.—E. E. Eggert, two houses each 20x100.

### Society of American Florists.

The Conard & Jones Co., of West Grove, Pa., have asked that the Society of American Florists officially register new plants of their introduction as follows: Rose, Miss Clara Barton; cannas, Admiral Schley and General Shafter.

WM. J. STEWART, Secretary.

### Chrysanthemum Cuttings.

ED. AM. FLORIST:—If chrysanthemum cuttings are inserted now, will the plants bloom the coming fall? J. A. Y.

Cuttings can be rooted now, and the plants will bloom in fall. Both plants and flowers, however, will be small. On the other hand, I have seen attractive pots of chrysanthemums from cuttings inserted as late as the middle of August. In this case five or six cuttings of a variety, preferably a dwarf one, were inserted in a 4-inch pot and grown on without repotting, each cutting or plant being confined to a single stem and one flower, thus producing five or six small blooms to each 4-inch pot. GROWER.

### The Trade Exhibition at Omaha.

We have received the following communication from the superintendent of the trade exhibition to be held in connection with the forthcoming convention of the national society:

I take great pleasure in presenting this circular to you and wish to call attention to a few advantages Omaha has for the S. A. F. convention and trades display. First, we have the great Trans-Mississippi Exposition which is well worth a trip across the continent to witness. Second, Omaha is the metropolis of the great and growing west, the resources of which are not yet known, with people possessing plenty of money and willing to buy that which their fancy dictates. Third, our local club is in fine condition and all its members are on tip-toe waiting for a chance to show our eastern brethren what the west can do. Fourth, if you have trade in the west it will be a good idea to come out and meet us and you

will be satisfied with results, for all who are on the ground will be in a position to get new business as well as protect what they already have, and will have no cause to complain.

Our exhibition hall is in a fine location and President Gude and Secretary Stewart consider it the finest place the S. A. F. has ever had. Trusting that you will give this matter of trades display your immediate attention and will make an early application, so as to give you good space and good attention, I am,

Respectfully, S. B. STEWART,  
Superintendent Trades Display.

### A Reply to Mr. Esler.

ED. AM. FLORIST:—Brother Esler in a very pleasant way calls me a kicker and couples me up in one sentence with a Texas mule. To be sure he says my "kick is of a higher order" (does that constitute me a high kicker?), which takes away part of the sting. One question of great interest, is, where will Mr. Esler be when the scrimmage he so vividly describes, takes place? Will he be among the sheep or among the goats or safely in the rear, saying "sick 'em" when any of the contestants show signs of weakening?

However, the object of the present writing is not to take Mr. Esler to task for calling the writer names in such a charming sort of way, but to point out an error in one of his statements. He says: "He kicks because the Executive Committee of the S. A. F. endeavored to turn the society to some practical use, etc." There was no mention or thought of what the Executive Committee endeavored to do. It was what they *did* do which was objected to. Believing earnestly that the action was a serious mistake, it seemed proper that attention should be called to it in advance, so that the members might consider the matter carefully and prevent its being carelessly approved at a lightly attended business meeting. W. N. RUDD.

### Greenhouse for Roses and Best Varieties.

ED. AM. FLORIST:—In building a greenhouse for roses, which is the best plan, the long or short span to the south? What are the best four varieties of roses to be grown in a private greenhouse? They must be white, pink, yellow and red. J. N. T.

Much can be said in favor of both styles of rose house, and in fact each has champions great and small, but my own opinion is that when it is intended to grow on raised benches the regular three-quarter span facing south is the best and most satisfactory house that can be erected.

I would recommend as the four best varieties in their respective colors for a private greenhouse Bride, Bridesmaid, Perle and Souv. de Wootton. The latter variety is not equal to Meteor when both are well grown, but it is quite impossible to handle Meteor successfully in the same house with other varieties.

ROBERT SIMPSON.

ST. JOSEPH, MO.—The new greenhouse at Krug Park will cost \$5,000. It will be 34x76 and will be 26 feet high. The plans were selected after a careful examination of the best establishments in the west, and the structure, of iron and glass, will be thoroughly modern in every particular. A miniature lake is being constructed in the park and will make a fine home for aquatics.

St. Louis.

FLORISTS' CLUB HOLDS AN IMPORTANT SESSION.—PLANS FOR THE ANNUAL PICNIC.—THE TRIP TO OMAHA IS ARRANGED FOR.—NOMINATIONS OF OFFICERS.—EVENING MEETINGS FOR THE SUMMER.

The monthly meeting of the Florists' Club was held last Thursday, with rather a light attendance, considering the importance of the business transacted. The picnic committee reported on arrangements. A special train will leave the Union station at 9:15 a. m. over the Air Line for Belleville; returning, leave Belleville at 8 p. m. Tickets for the round trip are 50 cents, and 25 cents for children, and have been pretty well distributed. A cool time on a hot day is promised to all who attend.

The transportation committee having in charge the trip to Omaha reports that from present indications the rate will be \$13.50 for the round trip, with the chances of a reduction when the time comes. Should fifteen decide to go, a special car will be provided for their use. Pullman sleeper berths cost \$2.50 each way. The secretary will send out postals August 6, and expects to have a full list of those who are going by August 10, so as to be able to make final report and definite arrangements at the next meeting of the club, which occurs on August 11. It is probable that all those going will leave here on the 14th over the Missouri Pacific. Parties from points connecting with St. Louis and wishing to go with our delegation, can keep posted by writing to J. W. Kuntz, 822 Olive street, who is chairman of the committee.

Nominations for officers developed quite a number of candidates for the various positions except the two that require work. Those nominated for president are: F. C. Welber, C. C. Sanders, Wm. Young and E. W. Guy; for vice-president, Max Herzog, F. W. Ude, C. A. Juengel and Robert F. Tesson. But one nomination was made for either secretary or treasurer, the present incumbents, Emil Schray and J. J. Benecke, being renominated without opposition. Trustees to the number of three will be selected from the following names: J. W. Kuntz, Wm. Meinhardt, F. W. Ude, F. J. Fillmore, J. W. Steidle and Julius Koenig, Jr.

The picnic committee was authorized to have the secretary draw a warrant on the treasurer for \$75 to defray expenses. The following new members were elected: Wm. H. Hudson, J. Koenig, Jr., and Gust Eggling.

An experiment is to be tried to see if a better attendance cannot be had during the summer months. The next three meetings will be held at 8 p. m. instead of 3 p. m., as formerly, and should this innovation prove popular, it is probable that the meetings for the summer months will be held in the evening and during the remaining six months in the afternoon. The trustees were empowered to select a place for our next meeting.

A change has been made in the bowling alleys used by the club, and from now until they leave for Omaha the club will roll on the Grand alleys, corner of Sixth and Pine streets. They are regular in size and better than those hitherto used by the club. Several extra players are being coached, so that we will not be short of good material. E. F. T.

Baltimore.

Because of the continued drought miscellaneous cut flowers were probably never so scarce here, at this season, than they are now, but prices have not changed

appreciably in spite of the scarcity, for the demand is very light.

Ed. Montgomery has taken M. Hautske's place on Gittings avenue, near the York road, and is hard at work preparing for the fall campaign. The Donn place, which Mr. Montgomery and his brothers abandoned after a good deal of hard work and harder luck, is being run by Archibald McFarland, nephew of John Donn. Mack.

TORONTO, ONT.—The Gardeners' and Florists' Association will hold its annual picnic July 28 at Niagara Falls and a large attendance is expected.

TACOMA, WASH.—Mrs. Lena McCoy gave her annual exhibition of sweet peas on July 13 and 14. It was a very creditable affair and was made the occasion of the introduction of Mrs. McCoy's new sweet pea Tacoma.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—Many years' experience with roses and general greenhouse work. Good references. JAS. WHITE, 1110 N. Second St., Phila.

SITUATION WANTED—By good all round florist and gardener; capable of taking charge. Please give full particulars in answer. Address W. K., care American Florist.

SITUATION WANTED—By young man in greenhouse; 2 years' experience. Good worker; good character, and have good references. Address H. S., care American Florist, Chicago.

SITUATION WANTED—By good gardener who wishes to have good place; 25 years of age, single; 12 years' experience. All references. Address JOSEF KOTTOUT, 155 W. 22nd St., Chicago.

SITUATION WANTED—By practical florist; German, age 27; 12 years' experience in palms, ferns, pot plants in general. All references. State terms. Address L. K., care American Florist.

SITUATION WANTED—In commercial or private place by first-class florist; carnations and violets; good propagator. Best of references. Address I. P. HENNEY, P. O. Box 15, East Kingston, N. H.

SITUATION WANTED—By a lady who is thoroughly capable; a situation in cut flower store; understands design work and curling for cut flowers. Wages reasonable. Address 496 Michigan Ave., Ailbion, Mich.

SITUATION WANTED—By practical florist and designer. No. 1 grower of the roses, carnations, mums, violets. Good commercial or private position. Best references. Address FLOREST P. O. Box 547, Alliance, O.

SITUATION WANTED—As manager or foreman by competent grower of roses, carnation, etc., decorative and bedding plants; 18 years' experience; married. Best references. Address M. S., Jenkintown P. O., Phila., Pa.

SITUATION WANTED—By practical florist, single; 10 years' experience in roses, carnations, violets, pot plants, etc. Good knowledge of design work. Four years in one place. References. State wages. Address J. R., care American Florist.

SITUATION WANTED—By practical experienced florist; age 33 single. For the last four years with one of the largest florist establishments in the east. Well recommended. Commercial or private place. Address JOHN STROH, Grant St., Flushing L. I.

SITUATION WANTED—By practical florist, German, single. First-class rose grower, also carnations, mums, violets and general stock; 20 years' experience. Competent to take charge. Best of references. Address FLOREST, Box 26, Ft. Thomas, Ky.

SITUATION WANTED—By a first-class grower of roses, carnations, mums and general stock. Can give good references from three of the largest growers in Pennsylvania. Single; 10 years' experience. Address J. R., care Red Rock Nursery, Foster Brook P. O., McKean Co., Pa.

WANTED—Single man to take charge of section of rose houses, come ready for work; apply Room 9, of Wabash Ave., Chicago.

WANTED AT ONCE—Young, single florist; good worker; no assistant to grow general greenhouse stock. Address J. L., Lamo, Joliet, Ill.

WANTED AT ONCE—An all around experienced caretaker for commercial place, most under land and culture of palms and ferns. Young and single can be preferred. For information address Edw. G. PEPPER, 17 Washington St., Portland, Ore.

FOR SALE—Four greenhouses, near y new Good retail stand. A. CLAUS, Springfield, Ill.

FOR RENT—First-class city greenhouses in city of over 200.0 in Illinois. A. B., care American Florist.

FOR RENT—Good paying retail houses, new, of 5000 feet, in city of over 200.0. Reuter to buy stock. A. B., care American Florist, Chicago.

FOR SALE—See ad-hand 4-inch pipe, good as new. Also glass in sizes from 8x10 to 12x16. Address DANIEL BRANCH, 3800 Grand Boulevard, Chicago.

FOR SALE—Four greenhouses, nearly new. Splendid retail stand in residence district on paved street leading to cemetery. Easy terms. Must retire on account of health. A. CLAUS, 501 N. 4th St., Springfield, Ill.

FOR SALE—21 acres land, suited to gardener and florist, in city limits, St. Charles, Ill.; small house, and buildings all new; 35 miles from Chicago; two railroads; on street car line; near cemetery. Price \$3000. Address H. SWABY, Eldora, Iowa.

FOR SALE—Florist's place in one of the best cities in eastern Illinois; city water; heated by hot water, and doing a good business; 3750 feet of glass—three bays—near court house. This place will bear investigation. Address H. D. C., care American Florist.

FOR RENT—Three greenhouses; established trade; recently built. Good house, barn, half acre of land in a live N. Y. state city of 20,000 inhabitants; fine chance for live man; rent \$16.00 a month; good reasons for renting. Address OPPORTUNITY, care American Florist.

FOR SALE—Well established retail flower business; large stock decorative plants, designs, vases, jardinières, doves and florists' accessories. All health reason for sale. Half price if taken quick. Store and conservatory for rent cheap. THOMAS S. PETERS, Harrisburg, Pa.

FOR SALE OR RENT—Valuable greenhouse plant consisting of eleven houses, about 12,000 feet of glass; fully stocked; situated in the center of Schuylkill county, Pa., with a population of over 150,000, and practically no opposition. To be sold on account of death. For particulars and terms address JOS. DEFREHN, Pottsville, Pa.

Boiler Bargain

Second hand boiler for sale for fifty dollars where it stands. T. H. LINSLEY & CO., Evanston, Ill.

CHICAGO LOTS FOR SALE!

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot, sewer and water. Suitable for greenhouse purposes. JAMES ROOD, JR., Tel. Main 3868, Room 5, 154 Lake St., Chicago.

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Florist establishment of over 10,000 square feet of glass; splendid situation; 8 lots, 35 ft. front; water, gas and electric light on street; greenhouse, office and barn all newly built, with all conveniences; heated by steam. Centrally located in city of 18,000 population in State of Indiana. Competition none to speak of. Leading establishment in the city. Sickens cause of selling. Address INDIANA, care American Florist.

FOR SALE!

The stock of five greenhouses, located near Cincinnati, Ohio, comprising horse, wagon and all necessary implements. Rent reasonable; one acre ground. Must be sold owing to death of owner. Electric cars within one square. Apply to MRS. A. FISHER, North Ave., nr. Forest, Station A, Cincinnati, O.

FOR SALE.

FIFTY HORSE POWER BOILER with front and fittings complete, F. O. B. \$100.00. Is in first-class condition, in use only five years heating school at low pressure..... Address JOSEPH KIFT, Manchester, Pa.

NOTICE

STOCKHOLDERS' MEETING.

CHICAGO, July 16, 1898.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the stockholders of the American Florist Company will be held in Hotel Dellore, Omaha, Neb., Thursday, August 18, 1898, at 3 o'clock p. m., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres. M. BARKER, Acting Sec'y.

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 Asters..... 1.00@ 2.00  
 Auratum lilies..... 6.00@ 8.00  
 Harriell..... 3.00@ 4.00  
 Lilly of the valley ..... 3.00@ 5.00  
 Sweet peas..... .04@ .68  
 Gladioli..... 2.00@ 4.00  
 Adiantum ..... .50@ 1.00  
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 Smilax..... 8.00@10.00  
 Asparagus..... 40.00@75.00  
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 Price list on application.

## Wholesale Flower Markets

NEW YORK, July 20.	
Roses, Beauties.....	2.00@16.00
" Bridesmaids, Tentouts, Brides...	.50@ 3.00
" Morgans, Meteors.....	.30@ 2.00
Carnations.....	.37@ .50
Lily of the valley.....	1.00@ 3.00
Sweet peas, per 100 bunches..	1.00@1.50
Longiflorum, Auratum.....	1.00@ 2.00
Smilax.....	8.00@10.00
Asparagus.....	40.00@50.00
Cattleyas.....	25.00@ 40.00
BOSTON, July 20.	
Roses, Beauties.....	5.00@15.00
" Morgans, Meteors.....	2.00@ 4.00
" Brides, Bridesmaids.....	1.00@ 4.00
Carnations.....	.25@ .50
Lily of the valley.....	2.00@ 3.00
Sweet peas.....	1.00@ 1.50
Smilax.....	12.00@15.00
Asparagus.....	50.00
Adiantum.....	.50@ .75
PHILADELPHIA, July 20.	
Roses, Beauties.....	3.00@16.00
" Brides, Bridesmaids.....	2.00@ 4.00
Kalgerins, Meteors.....	3.00@ 5.00
Carnations.....	.50@ .75
Lily of the valley.....	2.00@ 4.00
Japanese lilies.....	1.00@ 6.00
Sweet peas.....	.15@ .25
Cattleyas.....	35.00@ 40.00
Smilax.....	12.00@15.00
Asparagus.....	25.00@35.00
Adiantum.....	.50@ .75

# One Good Flower

is worth fifty poor ones but is harder to find in summer. ❀❀❀❀

Give us timely notice and we will do the best we can

**John I. Raynor**  
 49 WEST 28th STREET  
 NEW YORK CITY.

**THOS. YOUNG, JR.**  
 ❀❀ Wholesale Florist  
 43 West 28th Street, New York.

**WALTER F. SHERIDAN,**  
 WHOLESALE FLORIST,  
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.  
 ROSES LILIES

## JULIUS LANG

53 WEST 30th STREET  
 NEW YORK  
 CARNATIONS SMILAX

**Edward C. Horan,**  
 34 W. 29th Street, NEW YORK,

## WHOLESALE • FLORIST.

Careful Shipping to all parts of the country  
 Price list on application.

**WM. C. SMITH,**  
 Wholesale Florist,  
 40 So. 16th St., PHILADELPHIA.

Consignments Solicited. Special attention given to shipping orders  
 Long Distance Telephone 5008 A.

**N. Y. CUT FLOWER EXCHANGE**  
 404-412 E. 34th St. Near Ferry.  
 Open for Cut Flower Sales at 6 o'clock  
 Every Morning.....  
 DESIRABLE WALL SPACE TO RENT  
 FOR ADVERTISING.  
 JOHN DONALDSON, Secretary.

# Ford Bros...

❀❀ Wholesale Florists  
 111 West 30th Street, NEW YORK.  
 Consignments Solicited. Telephone, 260 38th St.

**FRANK MILLANG,**  
 CUT FLOWERS,  
 WHOLESALE COMMISSION,  
 408 E. 34th Street,  
 NEW YORK.  
 Cut Flower Exchange.

**Asparagus Plumosus Nanns.**  
 Strings 8 to 10 feet long,  
 50 CENTS.  
 W. H. ELLIOTT, Brighton, Mass.

**Now They're Cheap!!**  
 FLOWERS, ALL KINDS.\*  
 PLENTY OF THEM AT  
**J. K. ALLEN'S** 57 WEST 28th STREET,  
 NEW YORK.  
 TELEPHONE 282 38th St.

**GALVIN & CO.**  
 Wholesale Florists  
 AND DEALERS IN ALL  
 FLORISTS' SUPPLIES,  
 4 Ordway Place, BOSTON, MASS.  
 Cut Flower Consignments Solicited. Best market.

**JAMES M. KING**  
 Commission Dealer in  
**CUT FLOWERS.**  
 Good Money for your Flowers.  
 Good Flowers for your Money.  
 49 WEST 29TH ST., NEW YORK.  
 TELEPHONE 1675 38th St.

**GEORGE A. SUTHERLAND,**  
 Cut Flowers and Florists' Supplies  
 WHOLESALE.  
 67 Bromfield St., BOSTON, MASS.

Wholesale Florists **JOBBERS IN**  
 ALWAYS ON HAND  
 CARNATIONS, FLORIST'S  
 BRIDESMAIDS, SUPPLIES.  
 BRIDES.  
**N. F. McCarthy**  
 FLORISTS' VASES.  
 Horticultural Auctioneers.  
 84 HAWLEY STREET, BOSTON.

## THE NURSERY TRADE.

### AM. ASSOCIATION OF NURSERYMEN.

A. J. BROOKE, Pres., E. ALBERTSON, Vice-Pres.;  
GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

W. E. GARRAT will embark in the nursery business at Eagle Grove, Iowa.

PRESIDENT BROOKE, of the American Association, has recently added thirty-five acres to his nursery at North Topeka, Kan.

THE proposition to incorporate the American Association of Nurserymen has been defeated at three separate annual conventions.

LYMAN SMITH, inventor of several modern methods of handling grain, seeds and farm products, died at Urbana, Ills., July 9, aged 73 years.

THE big apple crop of 1896 was largely sold abroad and this year there is a very noticeable increase in the European demand for the fruit.

THE Georgia Horticultural Society, of which L. A. Berckmans is treasurer, will hold its twenty-second annual meeting at Americus, August 3 to 5.

THE American Association of Nurserymen has on hand \$536.70 in cash and has due from ex-treasurer N. A. Whitney, Franklin Grove, Ills., \$1,491.80.

GREENFIELD, IND.—James Frecman has returned from a very successful trip through the west, selling nursery stock. He reports trade as very good indeed.

CHARLES J. BROWN, of Brown Bros' Nursery, Rochester, N. Y., formerly president of the Rochester Chamber of Commerce, has been chosen chairman of the Monroe County Republican committee.

ELGIN, ILL.—John D. Busch, proprietor of the Bluff City Greenhouses, has purchased the stock and business of the Elgin Nursery, Seed and Bulb Company. The consideration was \$6,000. On July 13 the sheriff levied on both establishments to satisfy judgments of \$966, which Mr. Busch adjusted in order to be able to continue.

### A Laudable Departure.

The edict has gone forth and exhibitors of fruit at the meetings of the Royal Horticultural Society of England will no longer be permitted to advertise manures or fertilizers in connection therewith. In at least one of our leading organizations, the Massachusetts Horticultural Society, we believe such a rule has long been in force, the privilege of attaching business announcements or advertising matter being withheld alike from all. It is an excellent rule, and one which should be adopted in every exhibition designed to promote horticulture. Commenting on the recent action of the English society the *Gardeners' Chronicle* pertinently remarks:

"The Royal Horticultural Society has in many instances of late introduced very necessary improvements in connection with horticultural exhibitions, and though the present modification may be considered a small matter, it is by no means unimportant. Horticultural shows should be made pretty and attractive as possible, and as much by the elimination of unnecessary features that tend to mar the beauty of the display as by the introduction of novel and gratifying effects."

"Those of us who are in the habit of

visiting the exhibitions for the purpose of inspecting the plants and flowers to be found there are only too sensible of the untasteful prominence given to advertisement cards. But of these the greatest objection is taken to the cards placed in very close proximity to first prize collections, and suggesting, and sometimes actually asserting, that the produce has been grown by the aid of this or that manure. We need not discuss whether these are placed in such position by the exhibitors themselves, or by their permission even. It is a fact that they are generally distributed subsequent to the prizes being awarded, and the visitor will seldom see one attached to other than the first-prize exhibit.

"Without asserting that in many cases the exhibits may never have been given any of the particular manure so closely associated with them during their exhibition period, this much is quite certain, that the manure has played a secondary part in the production of the flowers, fruits or vegetables. Is not the first prize in a competition a primary testimony to the skill of the cultivator? His attention to details, his knowledge of the plant's requirements, and his doing of necessary work at the proper time; all these are the chief factors in the successful cultivation of any plant, and were such a cultivator to substitute Mr. So-and-So's artificial manure for Mr. Somebody-else's preparation, the result would most likely be similar. Gardeners understand this, but the 'man in the street,' the large number of unprofessional cultivators who attend the shows, may be misled.

"It is therefore most gratifying to note that the Royal Horticultural Society has decided that such practices in future will not be permitted at their fruit show. Certain other societies which are ever ambitious of acquiring a respectable reputation would find it to their advantage to adopt a similar course in the matter. We may add, also, that we have no sympathy with the custom of displaying cards advertising the fact that certain exhibits have resulted from the employment of seeds from a particular establishment. As in the other case, the credit is usually wholly due to the cultivator, who would not be likely to make use of inferior seeds."

### Worcester, Mass.

After weeks of waiting, rain has come our way at last and we anticipate no more trouble for our field crops.

I took a trip the other day, in company with another carnation enthusiast, to Northboro, and looked over H. A. Cook's establishment, which is devoted exclusively to this flower. About thirty thousand plants are in the field in splendid condition and will make unusually good stock by September. Mr. Cook intends to house about five thousand of his seedling No. 1, which made such a good impression in Boston last winter. Nivea and Daybreak will be the varieties grown most extensively. Of the newer ones, Bon Ton, Victor, Bradt, New York, Evelyn, Mrs. F. Joost, Wellesley and John Young will be given a trial this winter. At present they are all looking well in the field, Bon Ton and New York especially large and thrifty. Mr. Cook has just broken ground for a new house 26x150 and will use 11x11 glass, butted, as he is a true believer in this system of glazing.

Things about town are a bit slow and on a slight improvement in stock can be noted. A few good carnations are be-

ing cut from the earlier beds planted for summer blooming and we have had a few asters. The supply of good Kaiserins is about right for the demand.

H. F. Littlefield will build a carnation house 23x50. A. H. L.

BRATTLEBORO, Vt.—C. E. Allen had 500 lights of glass broken during the recent hurricane.

HERKIMER, N. Y.—James Barclay has gone to New York to spend two weeks. Mr. Barclay has 7000 feet of glass and is the only florist here.

## The Royal Tottenham Nurseries Ltd.

Late of  
A. M. C. Jongkind  
Coninck

DEDEMSVAART, nr. Zwolle,  
NETHERLANDS.

Managing Director: A. M. C. VAN DER ELST.

WHOLESALE GROWERS OF

Hardy Perennials, Aquatics (especially new and scarce varieties), Azaleas, Rhododendrons, Hydrangeas and Conifers, beg to announce that their catalogue containing a good many rare and new plants is in the course of preparation and copy may be had on application.

FOR FALL '98 AND SPRING '99 DELIVERY

A SPLENDID ASSORTMENT OF

FIELD-GROWN HARDY ROSES

Clematis, Ornamental Shrubs and Trees, Pæonies,  
Herbaceous Plants, Small Fruits, Fruit Trees.

Special quotations  
gladly submitted by letter.

Jackson & Perkins Co. Newark,  
New York.

## HARDY SHRUBS

Assorted in 25 Varieties.

My selection \$50 per 1000. Descriptive catalogue  
and price lists for the trade.

SAMUEL C. MOON,

MORRISVILLE, - Bucks Co., PA.

OUR SPECIALTIES ARE

Azaleas, Roses, Rhododendrons

New and rare hardy plants for forcing. Novelties in Ferns (raised by the largest London grower). The newest and best varieties of roses, H. P. and Tea scented, from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

F. Brunton & Co. IMPORTERS & EXPORTERS OF  
NEW AND RARE PLANTS,  
136 Boylston St., BOSTON, MASS.

HARDY

## Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PEONIES, PHLOX, IRIS, DELPHINIUMS,  
ETC., ETC.

JACOB W. MANNING,  
The Reading Nursery, READING, MASS.

ESTABLISHED 1864.

## Surplus Stock

Can be disposed of by  
advertising. Try it....

This Size "Ad." Costs Only \$1.00.

AMERICAN FLORIST CO., CHICAGO.

HOW TO GROW MUSHROOMS My 24-pp. book free to have for intending buyers of spawn; to others, 10 cents. New supplement on out-door culture by J. N. G. GARDNER included. First importation of the new spawn due this part Aug 25. Priced on application. C. C. Watson, Juniper & Walnut Sts., Philo, Pa.

**Omaha.**

PLANS FOR ENTERTAINING THE CROWD AT THE S. A. F. CONVENTION.—COMMITTEE ON FINANCE AND AMUSEMENTS—LOCAL BOWLING SCORE.

The Nebraska and Iowa Florists' Club met Thursday evening, July 14, to formulate plans for entertainment for the Society of American Florists in August. A committee on finance was appointed, consisting of the following persons: J. F. Wilcox, Council Bluffs, Ia.; A. Donaghue, Sr., and L. Henderson, of Omaha. The committee succeeded in raising a nice sum at the meeting, and will endeavor to add to this greatly during the week.

A committee on amusement and programme was appointed as follows: L. C. Chapin, Lincoln, Neb.; A. Donaghue, Jr., J. H. Hadkinson and J. Austin Shaw, of Omaha.

A new building with completely furnished bowling alleys and reception rooms, will no doubt be selected for the convention prize cup contest, as it is adjacent to the main entrance of the exposition. The following is the score for the games rolled July 18 in competition for positions on Omaha's representative team:

	1st.	2d.	3d.	4th.	Av.
A. Donahue, Sr.	188	155	149	140	158
J. F. Wilcox	143	133	177	159	153
L. C. Chapin	130	110	134	160	133
G. Swoboda	128	157	100	148	133
R. H. Davey	134	110	138	139	130
L. Henderson	119	93	166	132	127
J. H. Hadkinson	157	161	89	103	127
Paul B. Floth	109	83	91	116	124
J. A. Shaw	104	163	95	132	123
Geo. Zimmer	101	136	123	108	117

A. Donaghue, Sr., is thus far the leader. J. H. II.

**Helpful Reminders.**

So far as sales are concerned July, August and September are the florists' dull months but this is the season during which we should do our most careful work to bear its rich reward in the selling months of winter and early spring. Now is the time for studious, diligent endeavor; it is the season for starting things right, for "as the twig is bent, the tree inclines." Much important work for next season's crop cannot be satisfactorily accomplished at a later day than the present.

Over a large proportion of the country crops are in the ground, both for immediate use, such as sweet peas, asters, gladioli and pansies, and for winter blooming, such as violets, carnations and hydrangeas. Be careful that, except where the garden has perfect drainage and affords means for deep rooting, these plants do not suffer for moisture. When I say moisture I do not mean water exactly. People usually want water and not moisture, while the reverse is true of the vegetable kingdom; plants want moisture and not water; they will endure water at the time of a moist atmosphere, such as is usually produced by rain, but when the air is dry and hot be very careful how you water. Your plants will curl their leaves to economize in evaporation and so get through a drought better without your assistance than with it unless it is intelligently rendered. I have seen a field of tuberosea virtually cooked in hot July weather by being drenched with warm river water; the spikes of buds lay perfectly limp and the plants never recuperated. We all know that evaporation has a cooling effect; that upon a hot day the water in a porous jug is much cooler than that in a glazed vessel. We may easily apply this law of

nature to our affairs and, by keeping the surface of the soil in our gardens constantly stirred and porous, add to the cooling, life-giving properties of the sun-parched ground. It is far better that the surface of the soil should be dry but porous than wet and hard. Very frequently much delay in blooming is caused by an injudicious summer use of the lawn hose. Many growers were quite late with their violets last season and carnations are frequently inferior at moving time. Too many of us relax our care as soon as plants are set out in our gardens, a mistake for which the following three months can hardly pay. If you cannot manage your garden properly do not use it at all, and unless you can irrigate when the welfare of crops requires it, you would better do all your growing on benches. The best carnations and chrysanthemums are grown that way by a few who are ever watchful, but it is not my intention to advocate either plan in preference to the other, only to urge upon you the necessity of exercising as much care outdoors as under glass, and particularly to warn you of the immense amount of damage done annually by pouring water over a dry garden. C. B. W.

SPENCER, MASS.—The firm of Bigelow & Tyler has dissolved, W. G. Tyler, retiring.

GUILFORD, CONN.—Smith T. Bradley, the Atwater street florist, has just completed his sixth greenhouse. He has a lot of 4,000 very fine carnation plants in the field which will be planted on the benches in the new structure. Mr. Bradley also has 2,000 chrysanthemums and 500 violets doing well for winter blooming.

**Asparagus Sprengerii**  
SEEDLINGS ALL SOLD.  
Fine Plants, \$8.00 per 100. Sample by mail 10 cents.  
American Rose Co., Washington, D. C.

**ASPIDISTRA** *Lurida fol. var.* just now in good condition without leaves, good roots with sprouts, \$6 per 100; sample, 90c per doz. post-paid. *Canna "Florida"* for trial 10 cents.  
**Asparagus Sprengerii Seed** 100, \$1.00  
Fresh from the vines 1000, 8.00  
Pampas Grove Nurseries, Greenland P. O., Florida.

**Rose Hill Nurseries**  
LARGEST Growers of Palms, Orchids, Stove and Greenhouse plants, Ferns, Araucarias, Pandanus.....  
SIEBRECHT & SON, New Rochelle, N. Y.  
New York Office, 409 Fifth Ave.

**SPECIALTIES** IN BEST ...VARIETIES.  
ROSES, from 3-inch pots.  
CARNATIONS, for fall delivery.  
CHRYSANTHEMUMS.  
SMILAX.  
Prices low. Send for list.  
WOOD BROTHERS, FISHKILL, N. Y.  
SMILAX, from 2-inch pots \$1.50 per 100; \$3.00 per 1000.  
HYDRANGEA Okata, from 3-inch pots \$3.00 per 100.  
GERANIUMS, from 2-in. pots \$2.25 per 100; \$30 per 1000.  
" " 3-in. pots \$1.00 per 100; \$35 per 1000.  
" " 4-in. pots \$6.00 per 100; \$50 per 1000.  
Cash with the order. Send for samples.  
FRED. BOERNER, Cape May City, N. J.  
When writing mention the American Florist.

**"NOVELTY" TULIP**  
For Florists' Forcing.  
White, shaded with beautiful rose pink. Best selling Tulip in the market last season. Bulbs ready in September. Write for prices.  
INTRODUCED BY  
**Vaughan's Seed Store**  
HEADQUARTERS FOR "FANCY" BULB STOCK.  
CHICAGO: 84-86 Randolph St. NEW YORK: 14 Barclay Street.

**PALMS and FERNS**  
The Largest Stock of PLANTS IN THE WEST  
GEO. WITBOLD 1708 N. HALSTED ST. CHICAGO

**ORCHIDS!** Arrived in Fine Condition  
*Cattleya Gigas* well leaved, 6 to 8 bulbs, \$24 per doz.  
*Oncidium Kramerii* 2 to 3 leaves, \$15 per doz....  
LAGER & HURRELL, Summit, N. J.

**CHINESE PRIMROSES** Per 100  
20,000 PRIMROSES, single mixed, 2-inch..... \$2.00  
SMILAX, 2 1/4-inch pots..... \$5.00 per 1000, .75  
ALTERNANTHERA, Red and Yellow..... 1.00  
CINERARIA, ready in August..... 2.00  
PANSY SEED, 1/2 oz. \$2.00; oz. \$3.50. CASH.  
JOS. H. CUNNINGHAM, Delaware, O.

**2000 Smilax**  
First-class 3-inch stock, \$2.50 per 100; \$20 per 1000.  
THE E. HIPPARD CO.,  
.....YOUNGSTOWN, OHIO.  
**25,000 Smilax** Extra strong plants out of 2 inch pots ready for immediate planting at the lowest price ever yet quoted, \$1.00 per 100; \$8.00 per 1000. Cash with order.  
Beware in mind this is strictly first-class stock and there is a large saving in freight, buying out of 2-inch pots. First come, first served.  
South Side Floral Co., SPRINGFIELD, ILL.

It is good business policy to mention the  
**...American Florist**  
when you write to an advertiser.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

EVERETT B. CLARK, Pres.; JOS. A. BOIGIANO, 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

C. H. MCKUBBIN is now with the H. A. Dreer Company.

THE Stecher Lithograph Co. has established a branch house in London.

CAPE VINCENT, N. V.—The home of S. M. Pease, manager of the Cleveland Seed Company, was damaged by fire July 5.

GRAND RAPIDS, MICH.—The Maynard & Coon Nursery and Seed Company filed a dissolution notice with the county clerk on July 16.

ONION SEED PROSPECTS.—A telegraph report from California July 22, indicates injury to this crop from extreme heat; other crops remain as reported last week.

THE assignee of Crossman Bros., Rochester, N. Y., reports that a reorganization of the firm is possible provided the general creditors accept 25 per cent of their claims.

TEN and a quarter millions of dollars have been spent on experiment stations and the free distribution of seeds in the United States, not to mention the large appropriations made by the various states for similar purposes. The receipts, evidently, go to generations yet unborn.

Bulb Growing in North Carolina.

I am still at work endeavoring to demonstrate the adaptability of our soils and climate here to the production of flowering bulbs on a commercial scale. It has been hard for me to get those in control to realize that there is any importance to our people in anything beyond corn, potatoes and cotton, and hence my work has been retarded by lack of means for putting the work on a scale sufficiently large to attract the attention of the trade. But we have done enough to demonstrate that we can grow here with perfect success most of the bulbs now imported for winter forcing. In the case of *Lilium candidum* we have grown bulbs which were vastly superior to those from France and the same can be said of the Roman hyacinth. Last fall I tried a small lot of small sized and badly diseased bulbs of *Lilium Harrisii*. They grew healthily and though the bulbs are still small we feel sure that the matured crop will be fine and healthy. More than this, we feel certain that we can produce these in full time for early forcing. *Narcissus Tazetta*, the Chinese sacred lily, made bulbs here that bloomed more quickly in water than the imported ones. White Italian hyacinths make bulbs that look like Dutch, and much larger than the Dutch we have been getting lately. Dutch hyacinths are this year larger and finer than any that will be imported if the accounts from abroad are correct. We are hoping to get the Department of Agriculture at Washington interested in this matter so that we can get them to divert a little of the money now wasted in common garden seeds to experiments that may establish a new industry here. We have, we believe, demonstrated that the true bulb soil of our state is the medium sandy upland near the coast and not the deep sand of the sand hills where we have made some experiments. They suffer there too much from drought. We have here a vast area of good soil in a fine

climate in our lower coast region, and I am trying to get some of the northern colonists at Chadbourn to take an interest in bulbs. The great difficulty here, aside from lack of experience, is the fact that it requires some expenditure of capital to get started on a commercial scale and our people are poor and indisposed to take risks. If some of the northern dealers would put a large lot of stock here the matter could soon be settled, and the industry put on its feet. That we can produce the bulbs I am satisfied beyond a doubt, and that we can grow them at a profit to the growers we feel quite certain. W. F. MASSEY, Raleigh, N. C.

LANCASTER, Pa.—Julius P. Siebold reports a spring trade which was double that of any of his preceding years. His force worked almost night and day to keep up with the rush and now is busy with preparations for next season. Mr. Siebold is re-building a house in which he proposes to try winter vegetable culture. He has planted quite a little celery and finds that the drought keeps one person fairly busy handling the hose.

August Rölker & Sons,  
Send \$1.00 for one trade packet each of  
*Cineraria*  
*Primula*  
*Pansy* **SEEDS**  
In choicest strains. Our list quotes all other florists seeds and bulbs. For trade lists, address  
**52 Dey Street, - NEW YORK.**

**BURPEE'S SEEDS PHILADELPHIA.**  
Wholesale Price List for Florists and Market Gardeners.  
Mention the AMERICAN FLORIST when corresponding with an advertiser.



TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.  
**HENRY A. DREER, Philadelphia, Pa.**

**COLD STORAGE VALLEY ALWAYS ON HAND.**  
CASES of 2500 pips, extra quality, \$25.00; per 100, \$12.00.  
CASES of 3000 pips, good quality, \$25.00; per 100, \$10.00.  
**GLUCAS & BODDINGTON CO.,**  
501 & 503 West 13th St., NEW YORK CITY.

"BEST OF ALL" TOMATO (FOR FORCING)  
"ENGLISH" MELONS (FOR FORCING)  
**FLOWER SEEDS FOR FLORISTS**  
Catalogues on application.  
**WEEBER & DON,** Seed Merchants and Growers,  
114 Chambers St., NEW YORK, N. Y.

**SEEDS LAWN GRASS** \$12.00 per 100 lbs.  
Finest Quality Ever Offered (Retail @ 30c. lb.)  
**J. CHAS. McCULLOUGH, SEEDSMAN,**  
RECLEANER AND JOBBER GRASS SEEDS,  
North-East Corner Second & Walnut Sts., Cincinnati, O.  
Send for Illustrated Catalogues.

**TELEGRAPH CODE** OF THE  
**AM. SEED TRADE ASSOCIATION**  
\$2.00,  
In either stiff or flexible cover.  
ADDRESS ORDERS TO  
**AMERICAN FLORIST CO., CHICAGO.**

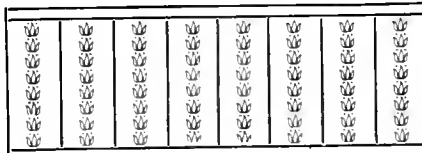
**FREESIA BULBS!**  
**WHITE GIANT FLOWERED**  
"Bermuda" Grown. ✨ ✨ New Crop Now Ready.  
Per 100 Per 1000  
MAMMOTH SIZE . . . \$1.25 \$9.00  
SELECT SIZE . . . 1.00 7.00  
Samples free on application.  
**LILIUM** (Indispensable for Early Forcing)  
**...HARRISII**  
As Healthy as Grown on the Island. ✨ ✨  
**READY JULY 25th.**  
PRICES LOW CONSISTENT WITH QUALITY.  
**Vaughan's Seed Store,**  
Headquarters for "Fancy" Bulb Stock,  
**CHICAGO: 84-86 RANDOLPH ST. NEW YORK: 11 BARCLAY STREET.**

From careful inspection by our representative in the growing fields during the past season, we believe this "BERMUDA" stock to be the purest giant flowering strain of White Freesia in the world. ✨ ✨ ✨ ✨ ✨ ✨

A Few of OUR SPECIALTIES: "London Market" Brand Lily of the Valley Pips, Japan *Lilium Longiflorum*, *Lilium Harrisii*, *Azalea Indica* and Bermuda Grown Freesias.

# Now Ready!

The American Florist Company's



FULLY REVISED TO DATE  
WITH UPWARDS OF

**3,000**  
**NEW NAMES**

# DIRECTORY

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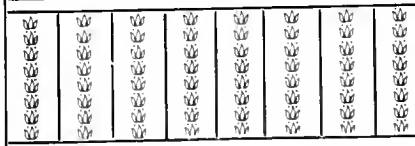
**Florists,  
Nurserymen  
And Seedsmen**

PRICE

**\$2.00**

IN FLEXIBLE LEATHER  
BINDING, \$3.00.

Of the United States and Canada arranged both  
by States and Post Offices and all  
names Alphabetically.



## American Florist Company

324 Dearborn Street, = CHICAGO, ILL., U. S. A.

Detroit.

HOT WEATHER PRODUCES ITS EFFECT ON STOCK AND PRICES AS WELL AS DEMAND. —TAPLIN'S HOME-GROWN AZALEAS.— OTHER GOOD STOCK.—BEARD BROTHERS LOSE BY HAIL.

We have been having unusually hot weather and it has caused deterioration all along the line. The quality of stock has gone down; so have prices and so has the call for flowers. Good flowers are so scarce that florists all have a hard time in getting blooms with which to trim their windows. Japanese lilies are helping out some.

S. Taplin has some homegrown azaleas, several hundred plants in all, which effectively controvert the old story that good azaleas can not be grown in this country. These plants were propagated from cuttings and some of them are now perfect pyramids ten to twelve feet high and six feet through. They are covered with leaves from the tub up and are perfect plants in every way. Many of the plants are in 12 and 14-inch pots and are four or five feet in height, trimmed to perfect cones. Several standards have stems four feet long and heads of almost equal diameter. They would make a grand show in any florist's window. Mr. Taplin also has a fine lot of cattleyas, most of them in 8-inch pots and in good condition. He claims that they can be grown to good profit if given proper attention. He has some large and fine looking Caelogyne cristata and also grows cypripediums well.

Our recent hail storm skipped over the city and only touched two florists but it hit them hard. Beard Bros. lost \$300 and S. Taplin had very little whole glass left after the storm passed. Neither had insurance.

At the great race for the Merchants and Manufacturers Stake this week, the winning horse was presented with a floral blanket. It was a well executed piece of work and made a great hit with the crowd. R. F.

BURLINGTON, IA.—John Nordean has a most attractive home and place of business. When he started, four years ago, he bought land which was anything but attractive, but has since filled it in and made it beautiful. Mr. Nordean learned floriculture at the royal gardens in Sweden and in Berlin.

EXTRA HEAVY Clean Stock!

Kentia Belmoreana 6-in. 5 to 7 leaves \$15 to \$24 per dozen. 5-in. 5 to 6 leaves 12

Kentia Fosteriana 6-in. 5 to 6 leaves \$12 to \$18 per dozen. 5-in. 4 to 5 leaves 10 to 12

FIELD GROWN CARNATIONS... A line of ... ready for Sept. delivery. THE COTTAGE GARDENS QUEENS, N. Y.

ROSE HILL NURSERIES. Special Offer: CROTONS, Carol 1-inch pots, brightly colored 1.00 per doz. FERNS for jardiniere, in six varieties 2 1/2 inch pots, ready for garden (1.00 per doz.) SIEBRECHT & SON, New Rochelle, N. Y. TELEPHONE 1.

MENAND STATION, Albany, July 7, 1898.

Having come to the: Heroic!! determination (for me) to sell all my stock of old relics, in the line of plants—which I have coaxed for upwards of 60 years. I send this information, that, besides the stock of all I have, I have perhaps a dozen or more of valuable plants "3 unique": A "Cycas revoluta" 8 feet high, with the tub and stem almost a yard in circumference, a splendid plant.

One Zamia or Ceratozamia "Lehmaniana glauca" with a bulbous stem of 4 feet in circumference and 2 feet high—with perhaps 100 leaves, 4 feet long or about, as fresh looking as the Celestial dew! as I suppose it is in the ethereal regions! Whither we may go sooner or later. . . . Giving the whole plant a diameter of 9 feet—a vegetable monument in a greenhouse!!

Also a Banksia serratifolia, a New Holland plant, very rare, nearly in bloom with 12 inflorescence 7 or 8 inches long, 4 inches diameter, a curiosity!! and lasting long: the plant is 6 or 7 feet high, and 18 inches circumference at the base.

L. MENAND, ALBANY, N. Y.

FOR SALE! READY FOR STORE TRADE

3000 RUBBER TREES in perfect health, half red, 4-inch pots, \$40; 5 1/2- \$50; 6, \$60 per 100. None better. Ready to shift. ARALIA SIEBOLDII, 4, \$25; 5, \$35 per 100. FERNS for dishes: Pteris Oretica Major, etc., 2 1/2-in., \$2.50; 3 1/2-in., \$3 per 100. NEPHROLEPIS, 3 1/2-in., \$12; 4 1/2-in., \$15; 5 1/2-in., \$35 per 100. ASPIDISTRA (green), \$70 per 100 leaves. 16 LARGE CYCAS (Sagos), 5 to 10 feet high, very cheap, would exchange for young Kentias and Pandanus Veltchii. PALMS in variety—have 65,000 to select from. Fresh cut Sago leaves, 75c and \$1.00 each. Medal awarded on Palms at World's Fair, 1893. Contracts for steady shipments of fine cut flowers, mums, roses, apraxus, etc., made now with first day parties only. We claim to have the Model 26 Greenhouses in the West. Come and convince yourself.

ALBERT FUCHS 2059-73 N. Halsted St., - CHICAGO.

E. G. HILL & CO., RICHMOND, INDIANA.

Cycas Revoluta Stems Popular sizes, 3 to 6 lbs each. . . . 10 ets. per lb. Please Mention the American Florist.

Azaleas THE FINEST STOCK IN THE WORLD Palms SANDER, BRUGES, BELGIUM. Bay Trees AGENT: A. DIMMOCK, 60 Vesey St., NEW YORK. Araucarias

Asparagus Sprengeri 20,000 Plants in 2 1/2-inch pots, \$5.00 per 100 express 24 per \$1.00 by mail specimens for 8 in. pots, \$6.00 per 12. A. BLANC & CO., Philadelphia

When corresponding with advertisers, mention the AMERICAN FLORIST.

VERY CHEAP AND FINELY SHAPED BELGIAN PLANTS

AZALEA INDICA, very fine stuff, well budded, \$3, \$4, \$5 to \$20 per 100. AZALEA RUSTICA, flure pleno (double), well budded, \$4, \$5, to \$8 per 100. AZALEA MOLLIS, bushy plants, well set with buds, \$2, \$3 to \$5 per 100. AZALEA MOLLIS, hybrid (single rustica), well set with buds, \$3, \$4 to \$8 per 100. RHODODENDRONS, grand stuff, well set with buds, \$3, \$4, \$5 to \$8 per 100. Palms, Dracenas, Aspidistras, etc., etc. All the above are of the best market varieties.

JEAN BRACKE, The Nurseries LOOCHRISTY, nr. Ghent, (BELGIUM).

Say: "Saw it in the FLORIST."

PALM Seed. FRESH ON HAND All kinds PHOENIX SEEDS ...of

A New Shipment of... Kentia Belmoreana and Forsteriana will arrive in a few weeks. J. L. SCHILLER 404 EAST 34th STREET, NEW YORK CITY.

THE FINEST WINTER FLOWERING PLANT OF THE CENTURY

Begonia Gloire de Lorraine THIS fine variety keeps up a succession of bright rosy pink blossoms throughout the Winter, and is invaluable for florists' work. H. B. May, who was the first to bring this striking novelty into popularity, holds the finest stock in the world. Price \$20.00 per 100, packed free. Orders for export carefully packed. H. B. MAY, Dyson's Lane Nurseries, Upper Edmonton, London.



# To Make a Ten Strike Start Your Ball Right.

**T**O make money make the first dollar in the buying. Barnard's Purchasing Department for Florists furnishes information about lowest factory prices on Glass, Pipe, Fittings, Paint, Tools, and other material used by florists. We have already saved our friends hundreds of dollars on such merchandise and thereby earned the good will of the trade. It is an accommodation worth while considering. Write and investigate.

## OUR SPECIAL PRICES on Fall Bulbs

\$8 per 100, \$75 per 1000. Freesia Refracta Alba (Bermuda grown), 65c per 100, \$5.50 per 1000. Oxalis Bermuda Buttercup, \$1.25 per 100, \$8.50 per 1000.

Fancy strain of Primula, Cineraria and Calceolaria, 50c per trade package. PANSIES, Barnard's Florist Mixture, trade pkt., 25c; 1-8 oz., \$1.00, ready now.

### W. W. BARNARD & CO.,

Special Preliminary Price List  
Free for the Asking

161-163 E. Kinzie St., CHICAGO.

can be had for the asking. We have a reputation for high grade stock, and sell it at a very close margin. Please try us. Ready now: Liliun Harrisii, 5-7 \$4.25 per 100, \$37.50 per 1000, 7-9

OUR CLAIM FOR SPECIAL EARLY DELIVERY SUBSTANTIATED

### HARRISII ARE IN.

FOR EARLY PLANTING  
...WRITE US

### MEXICAN BULBS

We are booking orders for Fall delivery of Amaryllis, Milla Bessers, Cyclobotras, Tigridias, etc. Send list of wants for estimates. Catalogue firms will find these bulbs cheap for arranging attractive collections.

**Cacti and Orchids**—We keep a sturdy year round for attending to orders from florists.

**Mexican Parrots**—This is the last month we receive orders. Double Yellow Heads, \$40 per doz; Red Heads, \$18 per doz. Florists dealing in birds will find these cheap import prices.

J. A. McDOWELL, P. O. Box 167, City of Mexico.

### Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.

RUDOLPH VAN TIL & CO.,  
Hillegom, Holland.

American Representative

L. C. BOBBINK, Rutherford, N. J.  
ASK FOR CATALOGUE.

## BULBS For FLORISTS, For SEEDSMEN.

VAN ZANTEN BROTHERS,  
HILLEGOM, - HOLLAND.

### CHINESE PRIMROSE

... SEED ...

Greatly improved and well-known to be of the very finest crown. Packets put up specially for Florists, of best single and double varieties, 400 seeds \$1.00; 1/2-pkt., 50c. Plants ready in August, at \$2.50 per 100.

Cineraria seed of large flowering dwarf varieties in choicest mixture, pkt., 25c; 6 pkts., \$1.00.

Primula obconica, pkt., 1000 seeds, 35c.

Primula floribunda, fine yellow, pkt., 25c.

JOHN F. RUPP, - Shiremanstown, Pa.

## Now Ready

THE American Florist Company's DIRECTORY of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Fully revised to date with upwards of 3,000 New Names. Price \$2.00; in flexible leather binding, \$3.00.

American Florist Company,  
324 Dearborn St., Chicago, Ill., U. S. A.

# Seasonable Flower Seeds

VAUGHAN'S  
INTERNATIONAL PRIMULA  
MIXTURE



This mixture is composed of the most salable colors of Single Flowering Chinese Primulas, the best whites, pinks and reds with a sprinkling of other colors, enough to give a large variety of colors. We have taken special pains to make this mixture as complete as possible and unreservedly recommend it to everyone.

Price for 1 Pkt. of 350 seeds, 50c  
International - 5 pkts., 1750 " \$2.00  
Primula Mixture 1 Per 1-16 oz. .... 2.50

Chinese Primula	Seeds	1000 Seeds
Chiswick Red.....	.50	\$1.75
Atrosanguinea, rich red.....	.50	1.70
Alba Magnifica, best white.....	.50	1.70
Rosea, pink.....	.35	
Blue, clear sky-blue.....	.50	1.70
Alba, pure white.....	.50	1.50
Mixed, 1/8-oz., \$3.00.....	.25	1.00
Double Mixed.....	150 seeds, 50c	

SEND FOR OUR COMPLETE LIST OF  
**SEASONABLE SEEDS**  
INCLUDING PERENNIALS AND  
NEW CROP PANSY SEED.

### CHATER'S PRIZE HOLLYHOCK'S.

Our seed of this has been saved from the finest and largest double flowers only and will produce flowers extremely double and in the best, brightest and most distinct colors. Sow now.

	oz	Trade
Double Pure White .....	1/2-oz., 25c.	10c.
Lemon Yellow, Pink, Purple Red, Rose, Salmon, Crimson each, 1/2-oz., 25c.	.75	10c.
Chater's Prize Hollyhocks, double mixed .....	1/2-oz., 25c.	75
Double Hollyhocks, good mixed .....	1/2-oz., 20c.	10c.

## Vaughan's Columbian CINERARIAS

Very finest English, French and German strains; the flowers are extra large, from 7 to 8 inches in circumference and in most brilliant colors.

Columbian Cinerarias mixed, per trade pkt. about 1000 seeds, 50c; 3 pkts. for \$1.25.

CINERARIA HYBRIDA, large flowering mixed, trade pkt., 25c.

CINERARIA HYBRIDA NANA, large flowering dwarf, mixed, trade pkt., 25c.

CINERARIA, double flowering, trade pkt., 50c.

**VAUGHAN'S SEED STORE,**  
NEW YORK: 14 Barclay St.  
84 & 86 Randolph St., CHICAGO.

Rochester N. Y.

We are sadly in need of rain, and outdoor flowers are getting scarcer and poorer every day, and although the demand is not very brisk at present our florists are not at all pleased with the quality of stock available.

A visit to a new addition to the nurseries of Ellwanger & Barry, situated several miles south of the original grounds, shows plainly what can be accomplished by thorough cultivation of the soil under the existing unfavorable weather conditions. Like all the numerous large farms which this old reliable firm has acquired during the last half century, these grounds were first systematically and thoroughly drained at a considerable expense, before any attempt was made to plant young stock. The grounds are now kept perfectly free from weeds; cultivators and plows go through the rows every week and when necessary a gang of men follow with hoes. About twenty-five or thirty acres are devoted to hardy roses, one and two years old, and Mr. Ellwanger, who invited me to accompany him on his daily tour of inspection, repeatedly called my attention to the vigorous growth of various varieties as we passed along through the narrow driveways between the blocks. "Given new soil for roses and we can get the growth every time, never mind the dry weather," was one of the remarks of the venerable expert. "We have roses in older parts of our nurseries, which in growth compare very favorably with these, but you must remember that we adhere to our practice of changing about; resting the ground by introducing farm crops and grass for some years, treating the land to liberal quantities of well decayed stable manure before we again use it to grow nursery stock. Still I always prefer new land for roses."

Although the regular rose season is past weeks ago, thousands of perfect flowers are to be seen yet in these fields. The soil, though naturally of rather stiff loam, is now loose and friable, with plenty of fibre intermixed, just like the best material we may use for potting. Constant stirring has broken up all the lumps, and in such soil we may expect ample root formation and strong growth. Several gangs of men were busy budding, for about one half of the roses grown here are on Manetti stock. The selection of scions and buds is entrusted to the foreman of the ornamental department, who is under strict orders to use only the very strongest and best developed buds, for Mr. Ellwanger has found, in his long experience, that a vigorous bud on a vigorous stock always produces a good salable plant, while inferior buds produce correspondingly inferior stock in spite of good culture. Formerly, for many, many years, all the buds were selected by the old gentleman himself, and it was with reluctance that he relinquished the task. Even now, at nearly 82 years of age, he shows the keenest interest in this important work, and quite frequently he personally supervises the selection of buds and gives acceptable advice to the man in charge. Nearly all the rest of this fertile piece of ground is planted to young shrubs, of last summer's propagation. Some few thousands of fruit trees are on the farther end, and every plant or tree is perfect and shows the beneficial effects of good, well-prepared soil and thorough cultivation. J. B. K.

CHESTER, PA. Thomas Hall, who has been with J. J. Styer, has resigned and will go to South America.

# ROSE PLANTS!

OUT OF 2 1/2 INCH POTS

AMERICAN BEAUTIES.....\$5.00 per 100. \$45.00 per 1000.  
METEORS..... 3.00 per 100. 25.00 per 1000.

Successors to... **Wietor Bros., ROGERS PARK FLORAL CO.**

Wholesale Growers of

CUT FLOWERS  
ROSE PLANTS...



51 WABASH AVENUE,  
...CHICAGO...

## The Last Chance Forcing Roses

1000 Beauties }  
1000 Brides... } ROSE PLANTS!  
1000 Meteors } 2 1/2-inch.

Absolutely unexcelled stock. Must be thrown out at the end of a week to make room for planting. Will sell small lots at \$1.50 per 100. You can have them all for \$35.00 if you write quick. Cash with order.

**J. A. Budlong**  
37-39 RANDOLPH ST., - CHICAGO.

ROBT. CRAIG & SON  
**Roses, Palms**  
and Novelties in Decorative Plants.  
Market and 49th Street, PHILADELPHIA PA.

### ROSES! ROSES!

Brides, Maids, Kaiserin and Meteor from 2-inch, \$3.00 per 100; \$25.00 per 1000.  
Brides and Meteor, from 3-inch, \$5.00 per 100; \$45.00 per 1000.  
50 at 100, and 500 at 1000 rates. Cash with order.

**ROBERT F. TESSON,**  
West Forest Park, - St. Louis, Mo.

**AMERICAN BEAUTY**  
Fine young plants, healthy and strong. 2 1/2-inch pots, \$8.00 per 100; \$70.00 per 1000.  
**EDWIN LONSDALE,**  
Wyndmoor, Chestnut Hill,  
Cash with order. PHILADELPHIA, PA.  
Money Order Office, Station H, Phila.

### Chrysanthemums!

New and standard varieties. Extra fine plants from 2-inch pots. Send for price list. Discount on large orders. ... ADDRESS ...

**H. WEBER & SONS, Oakland, Md.**  
Please mention American Florist.

### FORCING ROSES

	2 1/2-in.	3 1/2-in.
	Per 100	Per 100
BRIDE	\$2.50	\$2.50
BRIDESMAID	2.50	2.50
METEOR	2.50	2.50
White Pink and Yellow Ramblers, same.	Moonylves	
	\$20.00.	Alternantifloras \$18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

### SURPLUS ROSES.....

Brides, Bridesmaids, Perles, La France, Testout, Siebrecht; pure healthy stock  
1 1/2-in. pots, \$1.00 per 100  
2 1/2-in. pots, \$2.50 per 100  
E. NAGEL & CO., 824 Nicollet Ave., Minneapolis, Minn.

FIRST-CLASS, CLEAN,  
HEALTHY STOCK.

We claim GOOD VALUE at these prices. Send for samples.

2 1/2-in. per 100	3 1/2-in. per 100
American Beauty.....\$6.00	\$12.00
Papa Goutier.....	4.00
Pres. Carnot.....	4.00
La France.....	4.00
Mlle. Helene Cambier.....	4.00
Kaiserin A. Victoria.....	4.00
Perle des Jardins.....	3.50
Brides.....	3.00
Bridesmaids.....	3.00
Meteors.....	3.00
Clothilde Souper.....	3.00
Mosella.....	3.00

Asparagus Sprenger, 2-in. pots, strong.....per 100, \$5.00  
Asparagus Plumona, 2 1/2-in. pots, fine stock " 7.00  
Boston Fern 2 1/2-in..... " 6.00  
Nephrolepis Exaltata, 4-in..... " 15.00  
Fern in assortment, 2 1/2-in..... " 4.00  
Arancharia Excelsa, 6-in. pots, 15-18-in. high @ \$1.50 each  
Cocoa Weddellana, 3-in. pots " @ \$2.50 per doz.  
Kentias, Arecas, Lantanias, etc., large quantities in all sizes. Write for Special Prices, on sizes you want.

**VAUGHAN'S SEED STORE,**  
Greenhouses: CHICAGO:  
Western Springs, Ill. 84-86 Randolph St.

### Surplus Stock of Roses

CHEAP! Speak quick if you want them!

700 Beauties, 300 Meteors, 300 Brides in 3-in.; 100 Meteors in 4-in.; 700 Brides and 700 Bridesmaids in 2 1/2-in. GOOD PLANTS.

**JOSEPH HEACOCK, - Wyncote, Pa.**

### ROSES

KAISERIN, 2 1/2-in.	\$3.00 per 100
BRIDES, 3 1/2-in.	4.00 per 100
BRIDESMAIDS, 3 1/2-in.	4.00 per 100
METEORS, 3 1/2-in.	4.00 per 100

Very choice; grown for our own use. May be returned at our expense if not satisfactory.

**BRANT & NOE, - Forest Glen, Ill.**

### ROSES Clean, healthy plants from 3-inch pots, \$5 per 100.

Mrs. Morgan, Meteor, White La France, one year olds.  
Perles, Brides and Maids, strong, 3-inch pots.  
Bridesmaids, 2 1/2-inch, \$3.00 per 100.

**JOSEPH HEINL, Jacksonville, Ill.**

### They Don't Miss Fire...

Who take the right course and dispose of surplus stock through the advertising pages of

### The American Florist

IT HAS NO RIVAL.



Buffalo.

BUSINESS BUMPS THE BOTTOM.—SWEET PEAS AND CARNATIONS.—ANDERSON'S DECORATIONS.—PLANS FOR THE EXPEDITION TO OMAHA.—NOTES AND COMMENTS.

Trade at present is even too dead to bury. Occasionally a funeral order awakens the echos in the deserted stores and I did hear of one warm weather wedding for which the floral work was a bunch of eighteen roses; I believe there was some talk of having them photographed. Sweet peas are abundant but the stems are short owing to the dry weather. Carnations are still good and about the best things we get.

The B. Y. P. U. held a convention here last week and S. A. Anderson had charge of the decorating. It is needless to say he used some palms but the work was effective.

You can find a good display of palms, ferns, pond lilies and turtles in the different florists' windows all arranged differently.

The boys are making preparations to go to Omaha and if every other city is as well represented as I think Buffalo will be, the attendance will be good.

The florists who made lawn vases and bedding work their specialty for May and June can now be approached by the ordinary retail dealer without sending in his card as they are now busy only in making out bills. In almost every store now one or more of the employes are enjoying a much needed rest and as all the stores with one or two exceptions close at 6:30 p. m. the others have no reason to complain until their turn comes.

As yet we have made no preparation for our annual outing. Somebody is tired and if only the same degree of activity is shown in preparing for the flower show as there is in getting the boys together for meetings and outings we all know what the consequences will be—a small crowd.

Prof. Cowell, of the Botanic garden, called the other day and seemed very jubilant.

# ROSE PLANTS

AS GOOD AS CAN BE GROWN

We have the following Rose Plants, the same stock as we have planted in our own houses, still on hand and for sale. We guarantee them to be first-class in every respect.

3000 Am. Beauties.....	2 1/2-in. pots.....	\$5.00
2000 Bridesmaids.....	2 1/2 " .....	2.50
800 Meteors.....	2 1/2 " .....	2.50
500 Brides.....	2 1/2 " .....	2.50

FIRST COME—FIRST SERVED.

## BASSETT & WASHBURN, Hinsdale, Ill.

### 40,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY	3-inch pots, \$8.00 per 100.	LA FRANCE	4-inch pots, \$12.00 per 100.	PRESIDENT CARNOT
METEOR	KAISERIN	SUNSET	BON SILENE	
PERLE	MME. HOSTE	NIPHETOS	BRIDE	
BELLE SIEBRECHT.	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 1000.		

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted. A. S. MACBEAN, Lakewood, N. J.

## Roses and Chrysanthemums

GOOD STOCK

BRIDES, MAIDS, METEORS, 3-in., \$5 per 100; \$45 per 1000; 4-in., \$6.50 per 100.

BEAUTIES.

3-in., \$6 per 100; \$55 per 1000; 4-in., \$7.50 per 100.

2 1/2-in. stock of Glory de Pacific, Mand Adams, Lady Fitzwigram, Bergmann, Bonapoleon, Robinson, Modesto, Perrin, Vivand-Morel, Mand Dean, Mand Adams, Emil and Gretchen Buettner, Yellow, White and Pink Jones, D. Spaulding, Lottie Berry, Henderson, Crawford, Snowball, Defender, Mayflower, Thanksgiving, Whithers, Murdock, Golden Trophy, M. M. Johnson, Sunderbruch, Merry Monarch, Marquis de Montmort, price \$3.00 per 100.

Poehlmann Bros., Morton Grove, Cook Co., Ill.

## ROSES..

	2-in. per 100	3-in. per 100
Am. Beauties ..		\$5.00
Perle .....	\$2.75	4.50
Bridesmaid ...	2.75	4.50

MAPLEWOOD CUT FLOWER and PLANT CO. PLEASANT HILL, MO.

## CHOICE 3-INCH PERLES

For Immediate Planting.

Fine stock, which will make you money. Write at once.

Also some extra nice 3-inch METEORS, and some good BEAUTIES and BRIDES.

Samples on receipt of 25 cents in stamps.

W. H. GULLETT & SONS, Lincoln, Ill.

## Choice JUBILEE and FLORA HILL CARNATIONS,

In 3-inch pots, at \$4.00 per 100.

Also SMILAX, In 3-inch pots, at \$3.00 per 100.

ROSES in 3-in. pots, Brides, Siebrecht, Meteor, in 2 1/2-in. pots, Maids, Brides, Beauties. Send 50c or \$1.00 for samples and prices to

GEO. A. KUHL, PEKIN, ILL.

## Roses

With Good Heads and Substantial Feet.....

BRIDE BRIDESMAID GONTIER

\$10.00 per 100; \$80.00 per 1000. From 4-inch pots, and they are good. Other desirable sorts in limited quantity.

GEO. L. PARKER, 807 Washington St., Dorchester, Mass.

## ROSES. ROSES.

Strong, healthy stock such as we use for our own planting.

300 PERLE	} 3-inch pots, \$5.00 per 100.
175 SUNSET	
100 METEOR	
300 SIEBRECHT	
135 Pres. CARNOT	
400 TESTOUT	} 2-inch pots, \$3.00 per 100.
150 BRIDESMAID	
300 BRIDE	
500 PERLE	

L. L. MAY & CO., St. Paul, Minn.

## Dewey?

We do, while stock lasts. Per 100

PERLES, 3 1/2-in .....	\$5.00
BRIDESMAIDS, 3-in.....	4.00
SMILAX, 3-in.....	1.50
DRACAENA INDICA.....	1.50
WATER HYACINTHS, per 15 \$1.00.	

All stock perfectly clean. Roses very strong and bushy. Here's your money's worth. Terms cash.

## Jos. M. Smely,

Successor to Roscoe Saunders. 354 S. FOURTH ST. AURORA, ILL.

## ROSES LEFT TO SELL.

200 Kaiserin, 3-inch pots, \$7.00 per 100; 1200 Bridesmaids, 4-inch pots, \$9.00 per 100; 800 Brides, 4-inch pots, \$9.00 per 100. All are A1 line, healthy stock. Cash with order. 500 in one order of Maids and Brides at \$8 per 100. Also a fine stock of Begonia Rex, best varieties at low prices.

WM. F. KASTINC, Buffalo, N. Y.

## Surplus Roses

Brides, Bridesmaid, Perles and La France; fine healthy stock @ \$4 per 100; 4-inch pots, \$6.00.

CRABB & HUNTER, 509 Madison Ave. GRAND RAPIDS, MICH.

## ROSES

Brides Bridesmaid ...Perles

3-inch Pots, \$4.00 per 100.

### 200 Grafted Bridesmaid

4-inch Pots, \$10.00 per 100.

## S. J. REUTER,

WESTERLY, R. I.

## Roses

Clean, healthy plants, from 3 1/2-in. pots, Perles, Bridesmaids and Brides \$5.00 per 100.

HIRAM E. WILSON, 134 Hayward Park, ROCHESTER, N. Y. Mention American Florist.

## WANTED...

200 SOUV. DE WOOTTON, out of 2 1/2-inch or 3-inch pots. State price.....

J. O. ZIMMERMANN, Florist, Pueblo, Colo.

Pittsburg.

TRADE IS DULL.—LIGHT RAINS PROVE MOST WELCOME.—FLORISTS' CLUB TO DISCUSS OPENING A COMMISSION HOUSE.—LUDWIG DESIGNS A FLOKAL FLAG.—NOTES.

Business continues in the same quiet state that it has been in for the past three weeks, there being no general trade to speak of. There have been several rains since last report, and, although not near enough, they have helped the outdoor stock immensely.

The Pittsburg and Allegheny Florists' Club will hold its regular monthly meeting on Monday evening, July 25, and will discuss the advisability of opening a wholesale cut flower commission house here. The growers are especially invited to be present, as they are very directly interested. It is hoped there will be a large attendance.

Louis Schmidt, who has been with J. L. Wyland for several years, writes from Boulogne-Sur-Mer, France, of his safe arrival in good health. Mr. Schmidt will visit many of the large establishments in France and Germany before he returns.

At one of the recent numerous flag raisings, a young man, sick with consumption, requested the privilege of pulling the flag to the masthead. A few days after he died, and a floral flag was ordered as a funeral piece. Gustave Ludwig furnished it. The pole and knob were made of Daybreak carnations, the stripes of white and red carnations, the field of cornflower and the stars of tuberoses. Over 7,000 carnations were required to complete the beautiful design.

Wm. G. Bertermann, Indianapolis, Ind., visited here this week. REGIA.

CHARLOTTE, MICH.—Carl Mapes has gone to Detroit to prepare for his season with D. M. Ferry & Company.

**SURPLUS STOCK.**

8000 Scarlet Single

**GERANIUMS**

From 2 1/2-inch pots, per 100, \$1.00.  
From 4-inch pots, per 100, \$3.00.

Bruants, Hendersons, and best other scarlet sorts, fine, stocky plants.

**JOHN C. URE,**  
ARGYLE PARK, ILL.

**Geraniums**

For 100  
S. A. Nutt, 2 1/2" strong \$2  
Mun. Bruant, 2 1/2" " 3  
Mixed new and stand-  
ard varieties..... 2  
5000 new and standard varieties from 2 1/2-inch pots, \$2 to \$4  
ASPARAGUS Phloxes and 2 1/2-inch \$1.50  
CYPRESS of color Phloxes 2 1/2-inch 5

**CARL HAGENBURGER,**  
WEST MENTOR, OHIO.

**Pansies Worth Raising,  
NEW SEED.**

Cash with order.  
**C. SOLTAU & CO.,** 159 Grand Avenue,  
JERSEY CITY, N. J.

**FIELD GROWN CARNATIONS.**

**GEO. HANCOCK & SON,** Grand Haven, Mich.

**HERR'S PANSIES**  
SEND FOR REASONS WHY THEY ARE THE BEST.  
...SEED... Ready now at \$1.50 per 1/4 oz.  
...PLANTS... Ready now, 75c per 100; \$5 per 1000.  
September to January; 75c per 100; \$4 per 1000.  
...SMILAX...  
Sample plants for 10 cents. **ALBERT M. HERR, Lancaster, Pa.**

**CHRYSANTHEMUMS.**

Standard varieties, \$2.50 per 100. A list of varieties furnished on application.  
ALSO Per 100  
CYPERUS ALTERNIFOLIUS, 2 1/2-inch pots, \$2.50  
CYCLAMEN, white, pink, red, and white eriu-  
son eye, 2 1/2-inch pots, 5.00  
GERVILLEA ROBUSTA, 2 1/2-inch pots, 2.50  
GERANIUMS, fine plants, 2 1/2-inch pots, new  
and standard sorts (vars. on application) 2.50  
ASPARAGUS TENUISSIMUS, 3-in. pots, 10.00  
VINCA MAJOR VAR., 3-inch pots, 4.00  
SMILAX, 2 1/2-inch pots, 2.50

**NATHAN SMITH & SON,**  
ADRIAN, MICH.

**SMILAX CELERY  
CABBAGE**

SMILAX—2 1/2-in., large and healthy, \$1.00 per 100; \$8.00 per 1000. Just as good plants out of flats each plant carefully wrapped for shipment, 1/4 less above prices.  
Field-grown Cabbage Plants, 15c per 100; \$1.00 per 1000.  
Field-grown Celery same price. Celery, very large, transplanted once, 25c per 100; \$2.00 per 1000. White Plume and Giant Pascal. Cash with order. Samples by mail, 10c.

**R. KILBOURN, Clinton, New York.**

**CANNAS—Last Call**

A few Austria Cannas left; will close out at \$1.50 per 100; \$10.00 per 1000.

**The Conard & Jones Co., WEST GROVE, PA.**  
Please Mention The American Florist.

**PANSY PLANTS NOW  
...READY**

30,000 nice seedling Pansy Plants, now ready from 1898 seed for November and later blooming, 50c per 100, \$2.50 per 500, \$1.00 per 1000. Samples free. Mottings Giant Flowering Pansy Seed, trade pkt., 50c; 1 oz., \$1.00. This seed will raise 50,000 plants to the lb.

**THE MORRIS FLORAL CO., Morris, Ill.**

**VEGETABLE PLANTS.**

**CABBAGE**—H Succession Flat Dutch, Autumn King Drumhead, Savoy and other varieties.  
**CELERY** White Plume, Golden Self-Blanching, Giant Pascal, Golden Heart and other varieties.  
**TOMATO** Livingston's Stone, Paragon and other varieties. All above plants field-grown, 15c per 100; \$1.00 per 1000; \$8.50 per 10,000. If by mail add 10c per 100. Cash with order.

**R. VINCENT, Jr., & SON, White Marsh, Md.**

**CELERY PLANTS**

White Plume, Golden Self-Blanching and Giant Pascal.  
Field-grown plants at \$1.00 per 100, \$8.50 per 10,000. Cash with order. Samples free.  
**C. M. GROSSMAN,**  
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**CARNATIONS**

**F. DORNER & SONS CO.**  
La Fayette, Ind.

Have you seen our 1898 Directory? It lists every florist in North America.

**ROEMER'S  
Superb Prize Pansies**  
The finest strain of Pansies in the World.  
INTRODUCER AND GROWER OF ALL THE LEADING NOVELTIES.  
Highest Award Inter. Exhibition at Hamburg, 1897. Catalogue free on application.  
**Fred. Roemer,**  
Seed Grower, - QUEDLINBURG, GERMANY.

**SEED! PANSIES SEED!**

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading novelties of art colors, without doubt the finest strain in the market to-day. Mixed, per pkt. of 3000 seeds, \$1.00; 1/4 oz., \$1.50; 1/2 oz., \$2.75; 1 oz., \$5.00. White, yellow, black and blue, in separate colors, \$1.00 per pkt. of 3000 seeds.

CASH WITH ORDER.  
**PETER BROWN, - Lancaster, Pa.**  
Grower of Extra Fine Pansies.  
Plants ready Sept. 15th.

**X PANSY X  
SEED**

The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 3500 seeds, \$1.00; half pkt., 50c. A pkt. New Forget-Me-Not, "Jewel," with every order.

**JOHN F. RUPP, Shiremanstown, Pa.**

**H. Wrede,  
LUNEBURG, GERMANY.  
PANSY SEED.**  
144 First Prizes, the highest awards World's Fair, and Hamburg, 1897.  
1000 Seeds, 45c; 1/2 oz. mixed, 25c; 1 oz., 45c.  
Price List on application. Cash with order.

**FAXON'S "WHITE HOUSE" PANSIES.**  
The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.  
In Trade Packets at \$1.00 each.  
**M. B. FAXON,**  
Lock Box 1528, BOSTON, MASS.  
Correspondence solicited.

**PANSY SEED Large Flowering.**  
Do you want to grow the finest Pansies, if so, buy the **JENNINGS STRAIN.**  
Always reliable. None better. Very finest mixed, \$1.00 per pkt. of 2500 seeds; \$6.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, \$1.00 per pkt. The above all grown from very finest stock. Cash with order.  
**E. B. JENNINGS, L. B. 254, Southport, Conn.**  
Grower of the Finest Pansies.

**ZIRNGIEBEL'S PANSIES.  
GIANT**  
THE MARKET AND FANCY STRAINS are known by all the florists as the Standard Varieties up-to-date.  
FRESH SEED NOW READY in trade packages at ONE DOLLAR each.  
**DENYS ZIRNGIEBEL, Needham, Mass.**

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A Weekly Illustrated Journal. ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been FOR OVER FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$1.20 per year. Remittances to be made payable to H. G. COVE.

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## THE WABASH R. R. COMPANY

The Short and Quick Line between the East and West connecting Buffalo, Detroit and Toledo with Chicago, St. Louis, Kansas City and Omaha.

The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A.,  
387 Broadway, New York City,

J. O. McBEATH, N. E. P. A.,  
5 State Street, Boston, Mass.

C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

**JULY 29**

the Nickel Plate road will run an excursion to Chautauqua Lake, at one fare for the round trip. Write to J. Y. Calahan, 111 Adams St., Chicago, for particulars. (42)

**EXCURSION TO CHAUTAUQUA LAKE**

over the Nickel Plate road July 29th, at one fare for the round trip. By depositing tickets with Secretary of Chautauqua Assembly, same are available for return passage within thirty days from date of sale. City ticket office, 111 Adams St., Chicago. Van Buren St. Passenger Station, Chicago, on the loop. Telephone Main 3389. (43)

**THE NICKEL PLATE ROAD**

will sell excursion tickets to Chautauqua Lake and return on July 29th, at one fare for the round trip, with return limit of thirty days from date of sale by depositing tickets with Secretary of Chautauqua Assembly. Tickets good on any of our through express trains. Cheap rates to many other points East. Communicate with this office, 111 Adams St., Chicago, for any further information desired. Van Buren Street Passenger Station, Chicago, on the loop. Telephone Main 3389. (44)

An advertiser feels better when he knows he is getting direct returns for his money. Mention the AMERICAN FLORIST.

# NIKOTEEN

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABCURA DIP CO. CHICAGO.

**Kill AND SAVE THE BLOOMS! THE Bugs! QUICKLY DOES IT.**

Mention American Florist.

**Now Ready!** The American Florist Company's Directory of Florists, Nurserymen and Seedsmen of the United States and Canada arranged both by States and Post Offices and all names Alphabetically. Price \$2.00. In Flexible Leather Binding, \$3.00. Fully revised to date with upwards of

## 3,000 New Names

American Florist Company, 324 Dearborn St., CHICAGO, ILL.

**THE HARRISII DISEASE** can be prevented by immersing the bulbs for ten hours in a half solution of 30 per cent

## KRAFT'S PLANT TONIC

This has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25 cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

KRAFT PLANT TONIC CO., Rockford, Ill.

**Universal Insecticide**

For Flowers, Trees and Animals.

Recommended and in use by the foremost florists and nurserymen in the land.

For Sale at the Seed Stores.

**ROSE MFG. CO.**  
NIAGARA FALLS, N. Y.

# Tobacco

STEMS DUST EXTRACT

**BOTTOM PRICES.**

**VAUGHAN'S SEED STORE,**  
Chicago New York.

**THE BEST FOR ALL Florists'**

**"ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE**

FOR SALE BY SEED STORES

FOR FURTHER PARTICULARS WRITE TO

**LOUISVILLE SPIRIT CURED TOBACCO CO**  
LOUISVILLE, KY.

## Black Ants...

Easily and thoroughly exterminated by my non-poisonous and odorless powder. Results guaranteed. 1/2 & 1-lb. pkgs., \$6 and \$9 per doz., 40 per cent disc. F. O. B. Boston.

Mention **GEO. H. RANDALL**  
American Florist. WELLINGTON, MASS.

**THE Regan Printing House**

**NURSERY SEED FLORISTS**

# CATALOGUES

87-91 Plymouth Place,  
CHICAGO.

## The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:— I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.

Very truly yours,  
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97  
MR. THERON PARKER, Dear Sir:— Your wire stake is certainly a gem! Without hesitating we endorse it as an up-to-date carnation support. Yours truly,  
DAILLEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:— It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am  
Yours truly, E. AUSTIN.

**Straight Galvanized Steel Rose Stakes**  
AT LOWEST PRICES.  
Write for Prices, Circular and Special Discounts for Early Orders.

**The Model Plant Stake Co.,**  
THERON PARKER, Mgr., Inventor and Patentee,  
22 MORTON STREET, BROOKLYN, N. Y.  
Please Mention The American Florist.

A material has been discovered for glazing which after thorough tests has been proven far superior to putty; it is called

## MASTICA.

It is not affected by extremes of weather, and is thus especially adapted for greenhouses, etc. Send for descriptive circular of Mastica and Mastica Glazing Machines.

**F. O. PIERCE CO.,**  
Sole Manufacturers  
170 Fulton Street, NEW YORK.

**"We Kill Weeds Scientifically" How?**

... ADDRESS THE ...

**FAIRMOUNT CHEMICAL LABORATORY**  
N. W. Corner Broad Street and Fairmount Avenue,  
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**Scollay**  
Sprinkler....

INDISPENSABLE

J. A. Scollay, Maker,  
74 Myrtle Ave.  
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VAUGHAN'S SEED STORE, Gen'l Western Agents,  
84 Randolph St., CHICAGO.  
Mention American Florist.

**PURE BONE FLOUR.** Ammonia..... 14 05+  
Bone Phosphate..... 0 00

Ammonia..... 1 00  
Bone Phosphate..... 1 00

**PURE DRIED BLOOD.**

Send for prices and references.

**GEO. S. BARTLETT,** | Sole Importer to  
CINCINNATI, O. | Cin'tl Desiccating Co.  
1255-1257 West Sixth Street.

**THE AMERICAN FLORIST'S COLOR CHART**

is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.

**PRICE 15 CENTS POSTPAID.**

AMERICAN FLORIST CO., 322 Dearborn St. Chicago

Cincinnati.

BUSINESS IS QUITE DULL.—REBUILDING BY SUNDERBRUCH'S SONS.—THEO. BOCK'S NEW HOUSES.—GREENHOUSES FOR SALE.

Business continues very quiet, and our wholesale houses have but very little to do, as with the retailers funeral work constitutes about the only trade.

Nearly all of our growers are now busy repairing and painting. Messrs. A. Sunderbruch's Sons are remodeling six or eight houses and giving their entire plant a general overhauling. Theo. Bock, of Hamilton, O., is erecting two model houses, each 16x100, one for carnations and the other for roses. The glass is 16x24, and the Challenge ventilating machine will take the place of the old-fashioned sash lifter. The posts are red cedar and the balance is cypress. The Lockland Lumber Company furnished the woodwork. Mr. Bock believes in using good material, and finds it cheapest in the long run.

Owing to the death of Anthony Fisher, Mrs. Fisher wishes to retire from business, and the stock is now for sale. It is said to be in good condition and offers a rare chance for a live man. H. SCHWARZ.

Terre Haute, Ind.

A sight leaving a lasting impression upon the the mind was the funeral of a volunteer who died in camp and was brought home for burial. The obsequies were inspiring. The entire city united in paying the last tribute of respect to a townsman, to a patriot, to an American citizen. The floral designs were numerous and very elaborate and were furnished by John G. Heinel and Lawrence Heinel.

This is the time of the year when florists, in spite of the dull season, seem the busiest. Between replanting and putting the houses in good condition there is little time to waste. Lawrence Heinel will soon commence rebuilding four of his houses, making each 10x85 and thoroughly modern in every particular. Mr. Heinel has, among other things, a fine stock of Bostoniensis and cordata compacta.

John G. Heinel contemplates making some extensive improvements and additions. His stock of Nephrolepis cordata compacta, of which he grows a large quantity, will surpass even that of last season. Mr. Heinel reports an increased demand for this fern, both for his wholesale and retail trade.

Henry S. Graham made a flying trip to Indianapolis one day recently. His houses are in the best of condition, having been equipped with all the modern improvements, while the grounds surrounding them prove conclusively that Mr. Graham is a landscape gardener of full thirteen-inch calibre.

Cowan Bros., the Spruce street florists, have met with success during the comparatively short time they have been in business. They do a general trade, making decorative work one of their specialties.

Fred. Wunker & Sons are also well pleased with the results of this season's work. Mr. Wunker, who has been on the sick list, is improving. HOMO.

Standard FLOWER Pots

If your greenhouse are within 500 miles of the Capital, write us. We can save you money.

W. H. ERNEST, Station M, N. E. WASHINGTON, D. C.

13,500

DID you know that there were so many Florists, Nurserymen and Seedsmen in North America? Would your business profit were you to know them? The American Florist Company's Directory for 1898 will tell you each one's name, his address, his particular branch of the trade and the extent of his business. Price, postpaid, \$2.00. In flexible leather binding, \$3.00.

American Florist Company

324 DEARBORN STREET.

CHICAGO, ILL., U. S. A.

GALVANIZED STEEL WIRE PLANT STAKES

FROM \$2 PER 1000 UPWARDS

H. F. LITTLEFIELD, WORCESTER, MASS.



STANDARD FLOWER POTS

Send for price list of Standard Flower Pots, Hanging Vases, Seed Pans and Cylinders for Cut Flowers

Lawn Vases, 17x17-in., \$1.00; 19x20-in., \$1.50; Bases 12-in. high 50c. Address

HILFINGER BROS. POTTERY, OR.... FORT EDWARD, N. Y.

AUGUST ROLKER & SONS, AGTS., 52 DEY STREET, NEW YORK CITY.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'Y,

HARRY BALSLEY, DETROIT, MICH., Rep. 490 HOWARD ST.



GEO. KELLER & SON, MANUFACTURERS OF

Flower Pots.

Before buying write for prices.

361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

Standard Pots Made by

Good Railroad Facilities For shipping. Special Attention Given to Mail Orders, and Special Sizes Made to Order. NORRISTOWN, PA.

Price Lists Furnished on Application.



BRANCH WAREHOUSES:

Kearney and Westside Aves., Jersey City, N. J. Jackson Av. & Pearson St., Long Island City, N. Y.

FLOWER POTS

ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE.

J. G. SWANN'S SONS, MINNEAPOLIS, MINN. P. O. Box 78.

THERE ARE BUYERS

For all kinds of good stock advertised in

THE AMERICAN FLORIST.

**CYPRESS**  
GREENHOUSE MATERIAL OF  
JOHN C. MONINGER CO.  
412 TO 422 HAWTHORNE AV. CHICAGO, ILL.  
WRITE FOR CATALOGUE

H.M. HOOKER COMPANY  
COR. CLINTON and RANDOLPH STS. CHICAGO.  
**GREENHOUSE GLASS**  
OUR SPECIALTY.  
LARGE STOCK PROMPT SHIPMENT.  
ALSO MANUFACTURERS OF Pure Linseed Oil Putty Paints Brushes Etc.  
WRITE FOR LATEST PRICES

When writing mention the American Florist.

## Wheeler-Stenzel Co.

IMPORTERS AND JOBBERS OF

# Greenhouse Glass

Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

72 Sudbury St., BOSTON, MASS.

ARE YOU **BUILDING** or...  
**REPAIRING?**

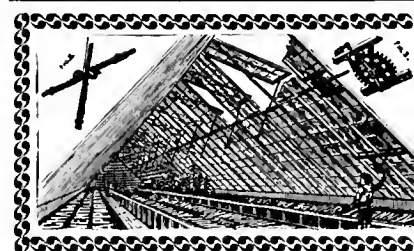
- Mastica, \$1.00 per gallon.
- Liquid Putty, 25-lb. can \$1.50, ready to use.
- Scollay Putty Bulb for applying Mastica or Liquid Putty, 85c.
- Van Ryper's Glazing Points, per 1000 60c, by mail 75c.
- Glass Cutters, steel roller, 15c each.
- Mastica Glazing Machine, \$1.00 each.

**Ellis & Pollworth,**  
Box 75. MILWAUKEE, WIS.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET LENGTH LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
THE A. T. STEARNS LUMBER CO.,  
NEPONSETT, BOSTON, MASS.

**FOR SALE CHEAP.**  
**GLASS** for Greenhouses, Conservatories, Hotbeds, etc. Also Hothed Sashes and Mats, Paints, Oils, etc. **THE REED GLASS & PAINT CO., 466 W. Broadway, NEW YORK.**

Everybody is more pleased if you say "saw your ad. in the American Florist" when writing.

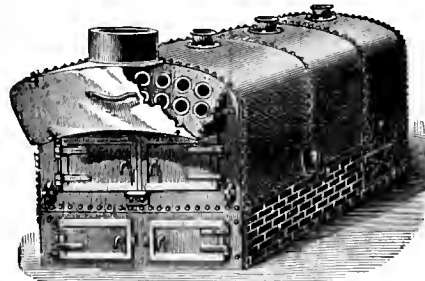


**EASY** It's easy to use because the principle is right. A boy can operate it. It's easy to put up because of its extreme simplicity. It's easy to buy because the price is reasonable.....

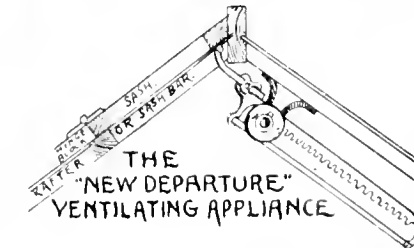
### THE CHAMPION VENTILATING APPARATUS

Catalogue is free. A postal with your name and address secures it. Address  
**AMERICAN ROAD MACHINE CO.,**  
Kennett Square, Pa.

## KROESCHELL BROS. CO. IMPROVED Greenhouse \* Boiler, 29 to 59 Erie St., CHICAGO.

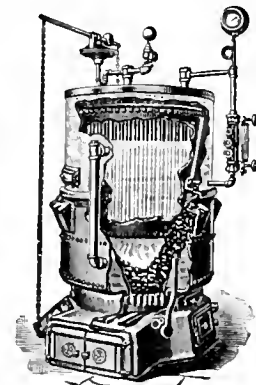


Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back. Write for information.



You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to  
**J. D. CARMODY, Evansville, Ind.**

## —THE— GORTON SIDE FEED Boiler



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

**GORTON & LIDGERWOOD CO.**  
96 Liberty Street, NEW YORK.

THE EMERSON PATENT BINDER  
Price postpaid 75 CENTS.  
Address American Florist Co. CHICAGO.  
Showing the appearance of the binder when quite full of  
THE American Florist.  
Every subscriber should have one.  
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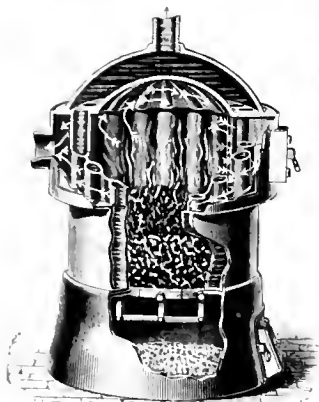
Indianapolis.

TEN DOLLAR REWARDS FOR THE DETECTION OF FLOWER THIEVES.—CITY PARKS ARE VERY BEAUTIFUL.—THE CLUB'S ANNUAL OUTING.—BOWLING WAS THE FEATURE.

At the July meeting of the Florists' Club another flower thief was reported brought to justice, much to the satisfaction of everybody excepting the club's treasurer, who thinks it rather hard on his funds to pay out so many ten dollar rewards. In this case, however, he was consoled by the generous offer of Messrs. Huntington & Page, our seedsmen, to pay the reward, which was thankfully accepted by the club. Huntington & Page say the numerous thefts committed considerably affected their bulb trade.

The flower displays at our city parks, now at their best, are much admired. Garfield park especially presents a most beautiful appearance this season. This park but a few years ago almost unknown to the general public is now the most beautiful as well as popular of all the recreation grounds.

The annual picnic of the Florists' Club was held at White River Park, July 6. As usual bowling was the main source of amusement. The alleys of the park are considered very fine, and prizes were won by John Hartje, Jas. Hanson, Frank Saak, Wm. Hartje, Henry Rothenthal and A. Pahud, in the order named. Although the majority had a pleasant time at the picnic, it was the prevailing opinion that for a family outing a more suitable place might have been selected. The ladies and those gentlemen who do not bowl felt the scarcity of other amusements, and also of shade.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW.



CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating.

ALSO MADE FOR STEAM.

Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

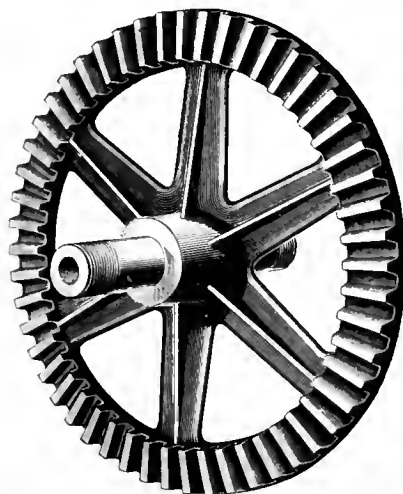
THE STANDARD OF THE WORLD.

SEND FOR FLORISTS' CATALOGUE AND PRICE LIST FREE UPON APPLICATION.

GURNEY HEATER MFG. CO.

NEW YORK CITY BRANCH: 48 Centre St.

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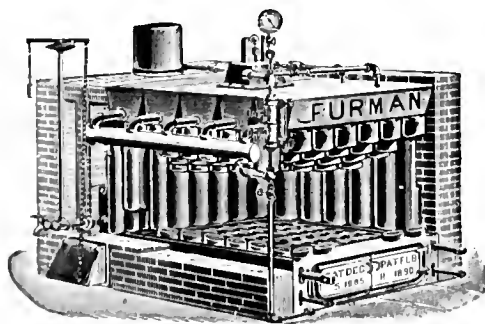
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Madison, N. J.

The Morris County Gardeners' and Florists' Society held its regular monthly meeting in Masonic Hall on Wednesday evening, July 13, thirty-one members being present. Pres. Wm. Duckham, in opening the session, said that owing to family sickness he would have to leave and request Vice-Pres. J. Jones to take the chair. Before vacating, however, he desired to express Mr. D. Willis James' appreciation and thanks to the society for the arch they had erected and for the part they had taken generally in the parade and celebration in his honor on July Fourth. The reason for this was that Mr. James bought several acres of land in the best part of the town, pulled down the old structures, and has created a most beautiful park. To show their appreciation of this gift the townspeople decided to have a parade in honor of this benevolent citizen. Fully 25,000 people were on hand, the gardeners and florists turning out to a man, with a splendid banner.

The monthly exhibition was as good as usual. In the vegetable class J. Robertson swept the decks. P. Cox came in with a creditable display of perennials and annuals. E. Reagan had seventy-four and A. Herrington forty-five named varieties of wild flowers, and Wm. Duckham staged a superb collection of sweet peas. There were many other miscellaneous exhibits not in competition. It had been arranged to have a "Rose night," but the lecturer failed to appear. Mr. Herrington filled the gap with an impromptu discourse on the habitation and requirements of wild flowers. He compared the wild flora of the United States with that of Europe, and, taking specimens, he spoke of the failures and successes he had met with in endeavoring to establish them in England.

Under the head of new business J. Jones proposed that the society take an excursion to Glen Island in September. This was put to a rising vote and met with a unanimous response. Six applicants were proposed for membership.

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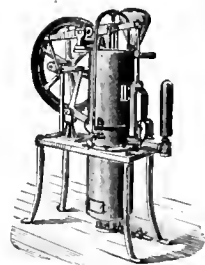
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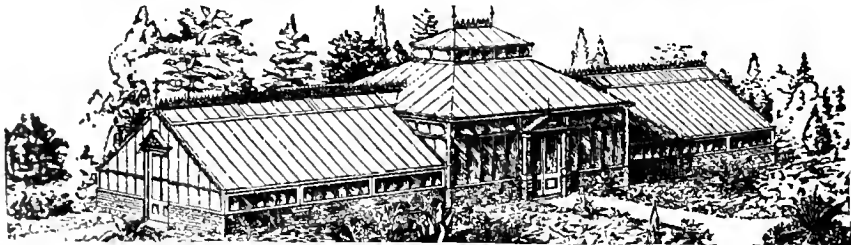
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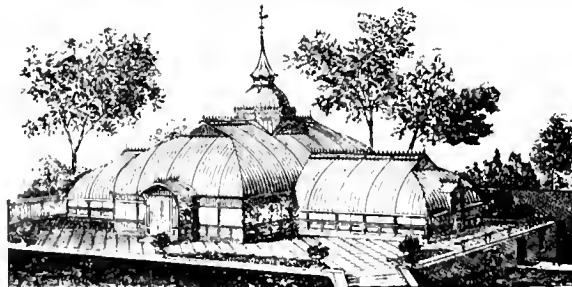
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MERRIMAC, MASS.—OSCAR L. NOYES, has given up the building recently occupied by him, and removed all his stock, etc., to Georgetown, Mass., where he intends erecting a greenhouse this fall. He intends to do mostly a shipping business.

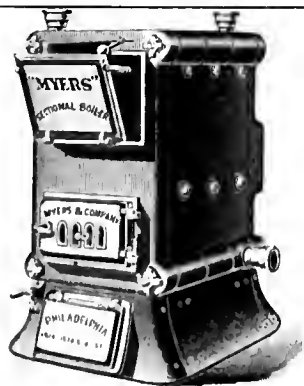
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Vol. XIII.

CHICAGO AND NEW YORK, JULY 30, 1898.

No. 530.

## THE AMERICAN FLORIST

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**SOCIETY OF AMERICAN FLORISTS AND  
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 A. DONAGHUE, Omaha, Neb., vice-president;  
 W. J. STEWART, 67 Bromfield St., Boston, Mass.,  
 secretary; H. B. BEATTY, Oil City, Pa., treasurer.  
 The fourteenth annual meeting will be held at Omaha,  
 Neb., August 16-19, 1898.

**THE AMERICAN CARNATION SOCIETY.**

Annual Convention at Philadelphia, February, 1899.  
 ALBERT M. HERR, Lancaster Pa., Secretary.

**CHRYSANTHEMUM SOCIETY OF AMERICA.**

Annual meeting at Omaha, Neb., August, 1898.  
 CLMER D. SMITH, Adrian, Mich., secretary

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### Illinois to Omaha.

In view of the excellent rate of fare now granted by the railroads, it is both hoped and anticipated that there will be a large attendance at the S. A. F. convention. The Chicago, Milwaukee and St. Paul railroad has been selected as the route from Chicago to the convention city. The fare will be \$14.75 for the round trip, and many of the eastern delegations will consolidate at Chicago for the trip west, leaving over this line August 15 at 6:15 p. m. Special cars have been secured, and berths will be reserved upon request, addressed to the undersigned, care of the AMERICAN FLORIST.

J. V. MERRION,  
 Vice-Pres. for Illinois.

### Hardy Herbaceous Plants.

Looking over our herbaceous border we notice the following plants in flower during the week ending July 23. Achillea The Pearl which we have been cutting for the past three weeks. All florists should have a good patch of this most useful plant. It is entirely hardy, exceptionally free flowering, and the flat open heads of pure white double flowers last a long time when cut, and associate well with other flowers. Although a free spreader it can be kept in bounds by running a spade around the clumps, or space allotted to it. Anthemis tinctoria is a little gone by but is still making a good show. This should be cut back as soon as the flowers are over; another crop of flowers in September will be the result. If allowed to seed it will soon become a bad weed. Aster acris, a native of Southern Europe is just commencing to bloom; the individual flower heads are rather ragged looking; white suffused with lilac. Astilbe Chinensis is past its best, but the foliage will be handsome till frost. For a damp place this is very fine, and although the flowers are not very bright (pale pink), the long graceful spikes are distinctive and attractive, especially on large, established plants. Campanula Carpathica, blue and white, are very pretty now, and the large blue and white bells of Campanula (Platycodon) grandiflora varieties are showing up finely.

Cephalaria alpina, sometimes catalogued as Scabiosa alata, has been very beautiful for the last three weeks, and seems likely to last in beauty for some time. The clear sulphur flowers are very distinct. C. Tartarica seems to be identical with C. alpina. Cimicifuga racemosa, closely allied to the actaea has very handsome foliage and racemes of feathery white flowers. When well established, the plant when in flower is three to four feet high and the foliage spreads to about the same width. Like the astilbes this requires a moist place. Coreopsis grandiflora is another plant that should be cut back before seeding, so as to secure another crop of flowers later in the season. We consider this the best of the family for cutting.

Delphinium Chinensis varieties have been flowering for the last three weeks, and will continue to do so till frost, if not allowed to seed. There are white, light blue, dark blue and some intermediate shades. Eryngium amethystinum is still very fine, and with several plants there is generally a succession of flower spikes from July 1 till frost. The stems as well as the flower heads are of a beautiful metallic blue. Euphorbia corollata is a very distinct looking plant; it will continue to flower until frost. The white flowers are

arranged in whorls and work in well with others. Echinops ruthenica Ritro, the globe thistle, has very distinctive round heads of metallic blue flowers, which last a long time when cut if kept dry. Gypsophila paniculata is very fine now; a large plant several feet in diameter makes a pretty background for some of the dwarfier plants. G. acutifolia, just commencing to flower, is good for cutting, but hardly showy enough for the border. The flowers are larger than those of G. paniculata but more scattered.

Helenium Boulanderii is beginning to make a good show; it is not so stiff in habit as H. autumnale, and the flower heads have very distinct dark brown discs. Heliopsis levis is in flower and will continue to make a good show for several weeks with its golden yellow flower heads; it should not be allowed to seed, or it will become a bad weed. H. Pitchenii with us is not distinct enough to make it worth while to have both on the border. Hemerocallis disticha fl. pl. we consider the best of the double hemerocallis; the flowers are terra cotta, shading to fawn, and are several shades brighter than the other double varieties. H. Thunbergii is very fine; its pale lemon yellow, sweet scented flowers make a distinct feature in the border. Lychnis vespertina fl. pl. is still making a good showing with its pure white night-scented flowers. If cut back soon now, there will be another crop of flowers when cool weather sets in again. Lythrum roseum superbum has been in flower for some weeks; its long spikes of bright rosy red flowers are distinct and produced continuously during the summer and fall. Monarda didyma, the best of its family, is at its best now, and will continue to brighten up the border with its deep red flowers for several weeks. It is good for cutting. Oenothera Youngii the best of the taller oenotheras, will continue to open its bright yellow flowers for some weeks yet unless the soil becomes too dry. O. riparia is quite as continuous, and is fine for the front row of the border. Pentstemon barbatus Torreyi keeps in flower longer than most of the pentstemons, and its long spikes of scarlet, tubular flowers are unique.

Phlox suffruticosa varieties are still very beautiful; they are not so set looking as the P. decussata sorts, start flowering two or three weeks earlier, and if the flower spikes are cut off will bloom again later in the season. The range of color is from almost pure white to dark pink. P. decussata has started to flower and will continue to make the border look bright till fall. We have over 150 varieties on trial this season, including some of Lemoine's latest novelties, and

will describe the newest and most distinct as they come into flower. *Sedum spectabile* fol. var. has very handsome golden variegated foliage, which keeps its color well from spring to hard frost. *Thymus montanus albus* and *T. montanus coccineus* should be more generally grown; they make a very dense carpet of green, and for several weeks are covered with their small flowers. *T. languinosus* forms carpets of hoary foliage, and is worth growing on that account; the flowers are not so showy as those of the two just mentioned, being of a dull lilac color. *T. vulgaris argenteus* and *T. vulgaris aureus* have very pretty variegated foliage, and are good for sunny, dry situations. We find *T. vulgaris argenteus* the hardiest and the variegation is well fixed. *T. vulgaris aureus* is liable to go back to the green form if in a shady position or rich soil.

*Viola cornuta* and its white variety have a second crop of flowers, and are helping to make the border bright. *Verbascum nigrum* we find the most satisfactory of its family; it started to flower two weeks ago, and by cutting off the flower spikes when over, a succession will be obtained for the rest of the season. It is a true perennial, which is more than we can say for the rest of the *verbascums*.  
Massachusetts. R. N.

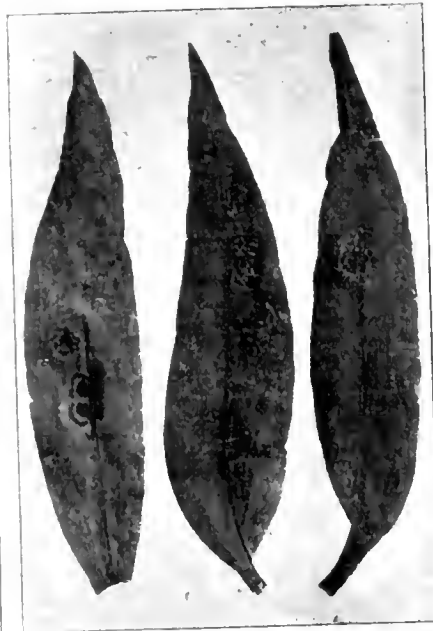
#### Roses at the Arnold Arboretum.

Hybrid roses are not reliably hardy in the United States. True, there are some localities where they succeed tolerably well, but in most places their culture is continued under discouraging conditions. A large number of plants never get strong enough to bloom well and those that do are short lived. The question of establishing or creating a new breed better suited to our climate has engaged the attention of specialists for a long time. Among others Mr Jackson Dawson, of the Arnold Arboretum, Boston, has given much time and thought to the subject. At first he believed it was a question of stock for grafting, and he has experimented largely with native and other reliably hardy species. *R. multiflora* has been tried with most satisfactory results, so far as concerns vigor. At first stem grafting was practiced, but this has proved unsatisfactory on account of suckers; roots alone are now used. Some eyes of Paul's Carmine Pillar on roots have grown four feet this season. Florists complain that tea roses are too rank on the *multiflora* stock and that the flowers are soft. So much for stocks.

The idea that hybrid roses could be made hardy by grafting on a hardy stock has been abandoned. Mr. Dawson now considers a new type necessary. This he is working for, and showing what cross breeding and selection will do, we need only look at Mr. Manda's hybrids and Mr. Dawson's with *R. Wichuraiana*. In choosing *R. Wichuraiana* and General Jacqueminot, two very distinct roses are brought together. Only an innate love for experiment could suggest such a proceeding. Some curious breaks, and some valuable ones, have come from these crosses. The indications are plain that by following them up, infusing hybrid blood, and reverting occasionally for vigor we shall have hybrids hardy enough to rear unimpaired by any ordinary frost. There is a host to work with. Probably *Crimson Rambler*, in which we have remarkable color and constitution, will help us to a new type of trellis rose.

Some of Mr. Dawson's hybrids are already well known, and a few sent to England have been enthusiastically com-

mented upon. The Dawson *Wichuraiana* and *Jacqueminot*, a climbing cluster rose with semi-double pink flowers, is a better trellis rose than the *Crimson Rambler*, though not equal to it in color. *Wichuraiana* and *rugosa* is a delicate single rose with trailing habit—a splendid cover plant. *Rugosa* and *Jacqueminot* makes a fine bush with deep crimson flowers. *Wichuraiana* and *Jacqueminot* has produced two good double varieties almost equal to a hybrid in build of flower; one is a delicate peach, the other deep pink; both are of vigorous constitution. Numerous crosses were made this season, and some interesting information was gathered as to the manner of making them. If the flowers were left on the plants, the bees would get all the pollen before the operator, so they were brought under glass and ripened. A brush is considered wasteful, so the point of a knife is employed in collecting and applying the pollen. *Boston Belle*, an old rose of good



RUST OF GARDEN PINKS

constitution, was extensively used this season among these hybrids. Seedlings of *Wichuraiana* crossed by China roses will be watched with interest; they are making pretty plants, all more or less creeping after the habit of the seed parent, but showing much variety in foliage, some being dark like the pollen parent.

Beautiful landscape effects can be made with the species of roses. From *R. cinnamomea*, *R. spinosissima*, and *R. blanda*, to *R. lucida* and *R. setigera*, the prairie rose, gives us a long season of bloom. A month ago *R. spinosissima* was superb. To-day *R. setigera* is at its best, the flowers changing from deep rose to white as they mature, make a splendid effect. The rare *R. lucida alba* is being propagated by thousands; it is a most deserving acquisition. I should not forget to mention some hybrids with *R. multiflora* and the Dawson. Some large bushes of these have been blooming in the nursery for a month past. From a decorative point of view they are far superior to the common *R. multiflora*. Immense masses of semi-double white flowers, occasionally tinted, terminate the stems, forming bouquets in themselves. T. D. H.

#### Rust of Garden Pinks.

The garden pinks (*Dianthus species*) are sometimes badly rusted. Not long ago while in a commercial garden the writer was impressed with the bad condition of the various sorts of pinks. The engraving shows, nearly natural size, three leaves that were then gathered. This rust while affecting the whole leaf and causing it to lose its green color, develops conspicuous circular patches of pimples. There are two of these patches upon the under surface of the leaf to the left hand, three in the middle and one upon the right hand leaf. A careful inspection of the clusters will show that the pimples are more or less in concentric circles, giving a peculiar appearance and one that does not admit of an easy explanation.

In connection with this rust there frequently arises the question of its identity with that upon the carnation. The pinks and carnations are very closely related, but here is a case where the fungi attacking hosts of the same genus are widely separated. To the naked eye the rust of the pinks and carnations resemble each other even to the circular arrangement of the pimples above noted, but here the likeness ends for with the compound microscope the fungi are seen to be so unlike as to belong to different genera. That of the carnations is *Uromyces caryophyllinus* Schr., while the pink rust is *Puccinia arenariae* Schm.

It is therefore a pleasure to assure all interested in the question that while both are genuine rusts and flourish upon hosts that are as closely related as cousins, so to speak, yet they are not propagated the one from the other. The rust of the pinks is an old enemy in this country and has a wide range of plants upon which it grows, both cultivated and wild, as the sandworts, chickweeds, corn cockle and sometimes the bouncing Bet.

Because of its wide range of hosts, some of them being common weeds, there is but little hope of extermination. The two points here being to give information upon a pest of the ornamental grounds and secondly to assure those who may have it that their carnations need not be expected to contract rust from other plants of the pink or any other family.  
BYRON D. HALSTED.

#### Carnations.

Another place in Lancaster that is devoted almost exclusively to carnations is that of Henry Rohrer, an establishment that is too large to describe in one paper, so we will divide it into two sections.

One range of his place is built with the houses separate, with a working space of three feet between them. The roofs are made of sash of regulation size, one of which is stationary and the next one movable and so on over all the houses. In the winter these movable sash are used as ventilators and in the summer they are taken off entirely.

His object in building his houses in this way was to have enough ventilation to grow the plants in them all summer and thus avoid the time and expense of transplanting them in the fall. The sides of the houses, although they are not over three feet high, interfere greatly with the free circulation of air, even with one half the roof taken off, and this lack of circulation is plainly noticeable in the plants, for while they are of good size and growing nicely they lack a certain character in strength and vigor compared with those grown outdoors. This lack of

vigor will be made up for to a great extent later in the season when they get the cool weather to grow in and do not have to be replanted.

There is no question but that this set of houses is going to be a decided success the coming winter unless something unforeseen turns up. It will be the first winter since they have been built that they will be a success financially as other seasons they have been too late in coming into full crop, the bulk of the blooms coming after the holidays. Some exceptionally fine flowers have been cut in these houses, but on account of the plants being small and rather weak until they had been brought along by regular greenhouse treatment they came entirely too late.

Profiting by past experience, Mr. Rohrer had early struck cuttings for this season's planting that were in due time potted up and grown into fair sized plants, better ones than many growers I know of have when they plant their houses in the fall. These were planted in the houses as soon as they could be emptied this spring, with the result that they can be brought into bloom whenever they are wanted this fall.

One reason why these plants are in as good condition as they are to-day is because Mr. Rohrer has had several years' experience, of which he made good use, and gives his plants careful attention and the best of culture, such attention and culture as can only be given by one who has had experience and keeps his eyes open all the time.

With a drought extending over ten weeks this summer, these plants had the advantage of water when they needed it and this makes the contrast between them and outdoor plants all the more striking. Yet, with all this in their favor and the condition they are in, for myself I would prefer good outdoor stock for my next winter's cut of flowers.

These are not model houses for the summer growing of carnations, but they show what can be done, in that they are going to be better than the average set of carnations this winter.

ALBERT M. HERR.



BEST OF ALL TOMATO.

#### Best of All Tomato.

The specimens from which the accompanying illustration was taken were grown by Edwin Lonsdale, of Chestnut Hill, Philadelphia. Best of All is an exceedingly prolific variety and a capital sort for forcing under glass. Here are the weights of the fruits in one cluster: 10<sup>1</sup>/<sub>4</sub>, 10<sup>1</sup>/<sub>4</sub>, 6<sup>3</sup>/<sub>4</sub>, 9<sup>1</sup>/<sub>4</sub>, 8<sup>1</sup>/<sub>4</sub>, 7<sup>3</sup>/<sub>4</sub>, 8<sup>1</sup>/<sub>4</sub>, 7<sup>1</sup>/<sub>4</sub>, 4<sup>3</sup>/<sub>4</sub>, total, 72<sup>3</sup>/<sub>4</sub> ounces. From all appearances Sutton's claims for this tomato are well founded. They are as follows:

"When first offering this fine tomato in 1895 we especially recommended it as the most profitable variety that could be grown for market purposes, and increased experience has confirmed our opinion. It sets very freely and is an immense cropper, producing heavy bunches of fruit at short intervals all over the plant. In a

given space we question whether any other variety would produce so great a weight of fruit. A peculiarity of this tomato which has attracted the attention of experts is that the first cluster is borne very low on the stem. The color is a deep scarlet; form admirable; good size, and the fruit is so solid that very little seed is produced."

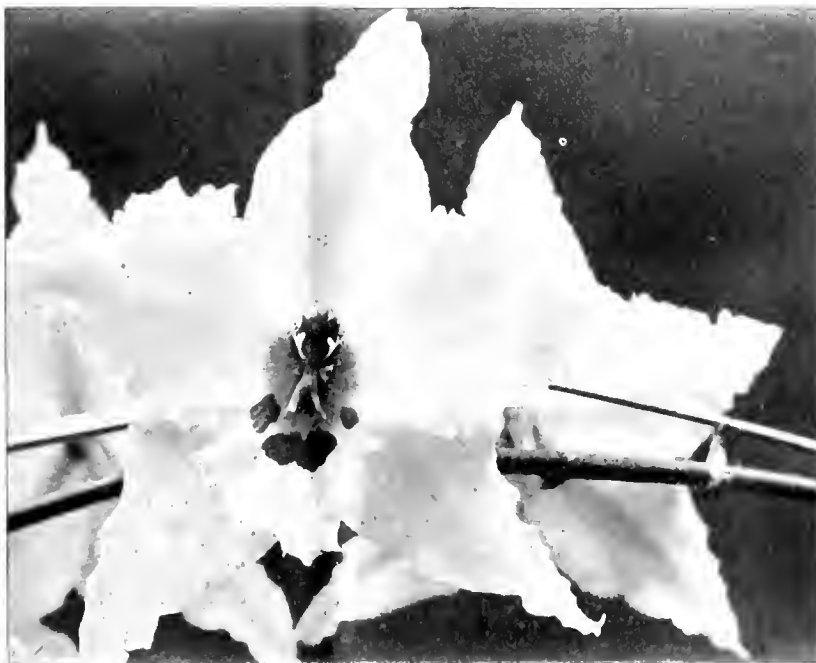
I do not know whether any one has tested Best of All in comparison with the Lorillard which is at present considered our best forcing variety. When selected stock of the Lorillard is available it is hard to beat, but in Best of All there are evidently some additional points of excellence that make it a welcome addition to our list of forcing tomatoes for market purposes.

G. C. WATSON.

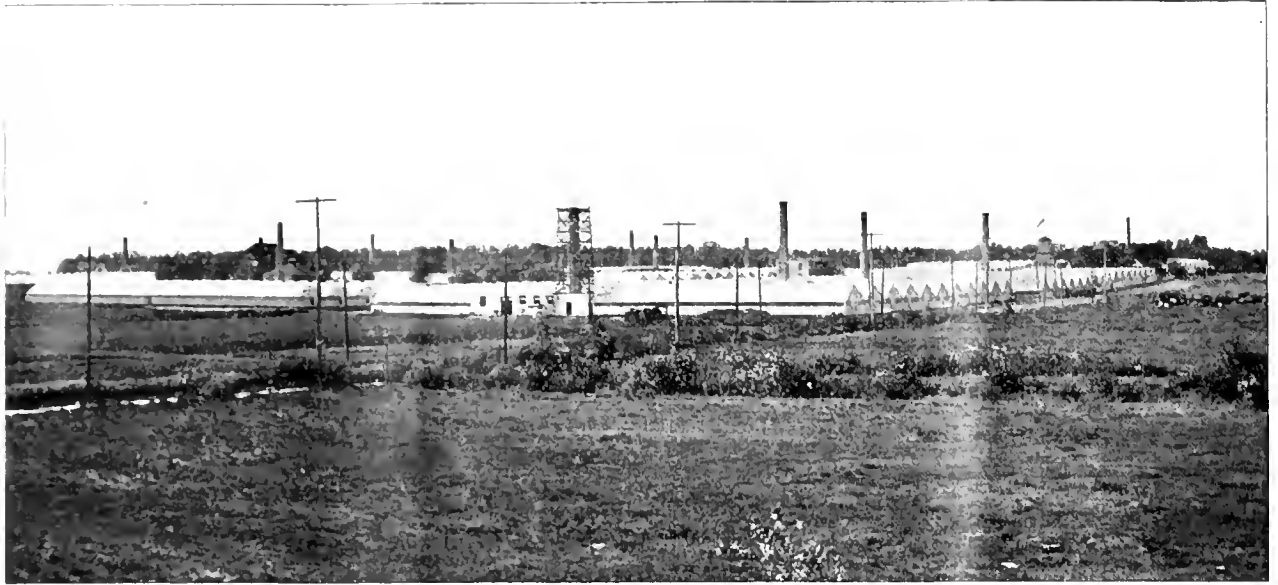
#### Odontoglossum Prince of Wales.

This superb variety of *Odontoglossum crispum*, exhibited at the Royal Horticultural Society's meeting of June 14, by Hugh Low & Co., of London, was awarded a silver medal and the coveted first-class certificate. This species of *odontoglossum*, in its numberless exquisite forms, has given us many pleasant surprises, but certainly none more wonderful than the present variety. The individual flower measures nearly five inches across, and the labellum is totally abnormal in its size of 1<sup>3</sup>/<sub>4</sub> x 1<sup>1</sup>/<sub>4</sub> inches. The substance of the blooms, like their size, is quite exceptional. The specimen exhibited had twelve pseudo bulbs and four leads. It was imported from Colombia by the Messrs. Low about four years ago, but while thriving satisfactorily at all times, it had never bloomed until this occasion, when it produced one spike with twelve flowers. The plant has passed into the orchid collection of Baron Schroeder, at Egham, Surrey, which is world-renowned, especially for its representatives of the genus *odontoglossum*.

UTICA, N. Y.—William Wagner, the florist of Milford, formerly of this city, has been called here by the serious illness of his father, Henry Wagner. Stephen Whitton, of Whitton & Sons, was kicked by a horse July 29. His left arm was broke and his head was badly cut.



ODONTOGLOSSUM PRINCE OF WALES.



THE REINBERG ESTABLISHMENT, SUMMERDALE, CHICAGO.

### Chicago Florists' Outing.

Reinberg's jolly feast will ne'er be forgot  
By those who were there or those who were not.  
*Dean Swift.*

The excursion of the Chicago florists to Reinberg's has passed into history as the most successful of all the expeditions of the Florists' Club and its friends. The guests began to arrive at the great greenhouses at Summerdale early in the afternoon of the appointed day, Sunday, July 24, and a constant stream of visitors flowed up the incline to jovial Peter Reinberg's broad lawn until the dusk of evening fell. It was a good-natured, interested, perspiring crowd, and outnumbered any similar pleasure party of florists. It is estimated that fully 250 were present, and a pleasing feature was the participation of an unusual number of ladies.

A considerable number of the guests reached Summerdale by the Northwestern road, leaving Chicago at 1 o'clock, but a party of more than half a hundred arrived at the scene upon two great tally-hos, each drawn by six prancing horses. As one of those who availed himself of the former conveyance remarked, the dead ones went by rail, while the "warm members" went "as live men should," a jocularity particularly pointed, as the Reinberg brothers provided free for those coming by rail a special car attached to the daily train to Foss Hill Cemetery, which chanced to be the only train available at the desired hour. E. F. Winterson conceived the tally ho idea and took it to its finish. Those who availed themselves of his invitation to be of the party assembled at Vaughan, McKellar & Winterson's at noon and, despite the heat of the day, enjoyed themselves during the two-hour drive as do boys at a circus. The turn-outs were decorated, and their gait was lightened by the bright dresses of the ladies.

Peter Reinberg, fat, forty and friendly, welcomed the arrivals and bade them avail themselves of whatever Reinberg provided. They saw that pleased themselves at it being the brand of his brother George. But George was there to speak for himself and it was his busy day, so he left nothing undone which would add to the pleasure of their guests.

There were refreshments for all and at all times. Tables were set upon the broad verandas and a tempting collation was spread, a choice assortment of eatables all the way from sandwiches to ice cream. There were cigars and other concomitants for an outdoor entertainment for men. The base ball game was a feature of the afternoon. The contest was between the city men and the "farmers," as the former dubbed the players who do not not earn their living by labor in stores. However, three of the city boys were compelled to turn countrymen for the occasion to fill up the opposing team. They found great delight in defeating the "dudes" by a score of 13 to 12 in five innings. Here are the teams:

CITY TEAM.	POSITION.	COUNTRYMEN.
E. Winterson.....	Pitcher.....	John Salmon
Jas. Curran.....	Catcher.....	Matt Smith
John Zeck.....	Short Stop.....	C. Pruner
W. F. Kyle.....	First Base.....	F. Hansen
F. Hauswirth.....	Second Base.....	Joe Dunn
W. Kreitling.....	Third Base.....	C. Hanner
L. Kelley.....	Left Field.....	H. Smyth
C. Balluff.....	Center Field.....	C. Hughes
C. Erne.....	Right Field.....	J. Beckman

It was Ed. Winterson's busy day, and it is a safe prediction that he worked harder than he ever did before, although he leads an active life. Had Anson found Ed. the "Old man" would have saved his job as head of the Chicago league team by virtue of Ed.'s pitching and base running. His sliding to first base was a feature of the game. But even at that the team did not win. "Jimmy" Curran was the hardest worked man in the eighteen, unless it was Matt Smith. These two gentlemen can sympathize with the Spaniards, for they found it no fun to stop cannon balls. Phil Hauswirth, who was the moving spirit in arranging the game, played harder than he could be induced to work and received a bump at second base which is far from a pleasant memory. Walter Kreitling, at third base, was a star, for he never muffed the ball. F. Hansen and John Salmon wore regular base ball suits, the only ones on the field, and were jocularly accused of being professionals. They played as though they had worn their clothes before. H. Smyth, Joe Beckman, C.

Pruner, Joe Dunn and all the others did their share of over-exertion for the amusement of the crowd. The grand stands were all "bleachers," but the friends of the players lined the sidewalks, although they made hard, hot seats, and enjoyed the sport to the fullest degree. One of the striking things of the game, aside from the batsmen, was the coaching of the runners, a duty in which the crowd assisted with many a pertinent bit of personal advice.

After the ball game the refreshments sustained an attack which was simply irresistible.

But, after all, the most interesting part of the day of pleasure was the trip through the great greenhouses of the two brothers. Nowhere in America, and probably not in the world, is there such an expanse of glass devoted almost entirely to the growing of roses and carnations for the cut flower market. Here are 600,000 square feet of transparent roofing, and the investment in glass alone is a sum equal to a small fortune. The season is, of course, the wrong one to see the immense establishment at its best, but were the long benches absolutely empty the place would still be well worth a visit.

As it is, the tourists found house after house, so many that the proprietors themselves are not able to tell the exact number, planted to thrifty young roses. The work of housing approximately 175,000 plants has been virtually just completed, although a number of the houses have been occupied for several weeks and some of the plants will soon be sending first-class blooms to market. Several houses are still the homes of roses which have bloomed constantly for many months, and which are still supplying very fair flowers for the wholesale house at 51 Wabash avenue, which Archie Spencer manages for the two big growers.

The Reinbergs grow more roses than any firm in the west. They make American Beauty their leader and are very successful with them. They have benefited over 50,000 Beauties. Bridesmaid is second numerically, as the plantation is about 35,000. Meteor, Bride, Perle and Kaiserin follow in the order named. They have planted a few La

France, but have discarded both Carnot and Testout. They also have small plantations of several of the new roses and the ones less valuable commercially.

An incident may be cited which will in a measure illustrate the extent of this rose growing establishment. It is no small task to provide supports for a large number of plants, and here a force of men is now at work straightening telegraph wire and cutting it into four and one-half and five-foot lengths for this purpose. The wire is what dealers know as No. 8, and usually sells at \$21 a ton, but the Reinbergs recently placed an order for eight tons, are hauling it themselves, and secured the lot for \$144.

The fields of carnations were a source of much pleasure to the visitors, most of whom tramped across the six broad acres of plants and admired their healthful condition. In only one spot in the big field is there any trace of rust or any plants which are not in the best of shape for their various purposes. A small part of the land is somewhat lower than the rest, and here the water stood during the June rains and damaged a few hundred plants, but a few hundred is such an inconsiderable portion of the many thousands in the field that they are hardly noticeable.

It is said that nowhere in the middle west is there soil better adapted to the outdoor growing of carnations than is that at Reinberg's. It is sandy, light and porous, and the plants invariably make strong growth in it, but when it comes time to house them it is necessary to prepare a heavier soil. The field blooming carnations are among the most attract-

ive features of the place. The thousands of plants which are now blooming are well developed, despite the fact that permitting them to bloom prevented pinching them back, and in most varieties the blooms are large and of good color.

One of the best of the summer flowers they find to be the Kohinoor, of which they have 18,000 now blooming. This variety gives splendid large pure white flowers when grown in the open air, but under glass it comes variegated and is of little value, consequently only enough are housed to supply cuttings in late November. The cuttings are in pots until late April or May and are planted out as soon as possible. They grow strong stems which need no support. About 10,000 Portia are blooming this season, but the variety will be dropped in the fall.

There are more Scotts in the field than of any other variety, but every standard sort is being grown, and many of the new introductions are being given a trial. While Scott is considered the best commercial variety and nearly 15,000 of them will be benched, Lizzie McGowan, Nancy Hanks, Mayor Pingree, Jubilee and Flora Hill are high in favor and will be planted in extensively. They have virtually discontinued Nivea and Ivory, because of their lack of size, but are still growing a few hundred of each variety. Mrs. McBurney, Evanston and the New Triumph are among the new sorts which are being tried, and from which much is expected.

The next excursion will be to Milwaukee via the steamship Virginia, Thursday, August 11. The boat, which is the finest of those running out of Chicago,

will leave at 9:00 a. m., reaching Milwaukee at 2:00 p. m. Returning, the boat will leave at 5:00 p. m., reaching the docks in Chicago at 10 o'clock. This schedule permits of a stay of three hours in the Cream City, and the party will be well entertained by the Milwaukee florists. Tickets are on sale in all the wholesale houses. The fare will be 85 cents for the round trip.

#### Notes of the Omaha Exposition.

The bluff tract on the east side of the exposition grounds is rapidly becoming an attractive resort. The beautiful headquarters of the different states in imposing buildings are the rendezvous of many a gay convention party and the odor of flowering plants and shrubs is everywhere.

Omaha has a population of 200,000 and offers better hotel facilities and conveniences than any other city of the west. Omaha, in fact, is famed for her hospitality. Every tourist stops there on his journey across the continent; therefore it abounds with hotels ample to accommodate the large delegation the florists' reception committees are so generously providing for. Trips to the parks, to Manawa, the Manhattan of the west, to Prospect Hill and Forest Lawn cemeteries and the "bowls" to take place directly under the towers of the Exposition buildings will make pleasant the intervals snatched from the convention and the exposition.

The beautiful edifices in which the sessions of the convention are to be held are



CHICAGO FLORISTS CLUB AT REINBERG'S.



OMAHA, NEB. THE CONVENTION CITY.

faultless in their ample seating capacities and their acoustic properties. Come and see for yourself this wonder of the times. See Omaha set upon her hills and take in the panoramas stretching to the east and south with miles and miles of lovely valley, for the surrounding scenery is incomparable. The dream palaces of the Arabian Nights appear to you in reality, but description can not make you understand it. You must come and see for yourself. And when you have visited it, and luxuriated in it, and breathed its exhilarating ozone, when you have taken a gondola ride upon the illuminated grand basin, when you have beheld the colored fountain and its jeweled spray, when you have stood enraptured in the presence of the golden domes mirrored upon the waters and have seen the splendors of gorgeous sunsets lighting up the purple-hazed bluffs beyond the river, the memory of the scene will linger with you and in your slumbers will take you again in its embraces.

The exposition gardeners are doing their best to get everything in trim for the florists when they arrive for the convention. Henderson has a beautiful carpet bed opposite the Minnesota building, a structure of logs from the pine forest of that state.

Lizgett & Myers Tobacco Co. have made a test of Kentucky White Burley seed and have a fine display of over 200 plants which have nearly attained full growth and seem to be bleaching fine. This is remarkable as they were started as late as June in a climate unknown to tobacco growing districts. This is probably the first crop of a great industry to the public.

Don't fail to get on Montgomery Ward & Co. pneumatic carriage and

take in the bluff tract. As you speed along the winding drives, past the gay flower beds and the crowd on the edge of the bluffs, take in the hills across the river and notice the silhouetted oaks against the water of the lake below, and don't overlook the quaint Japanese tea gardens at the end.

Prof. Frederick W. Taylor, Superintendent of the Bureau of Agriculture, Horticulture, Forestry and Irrigation took a short outing in the Yellowstone last week and reports a lively time. The National park is becoming quite a mecca for tourists this year.

E. C. Kirstead has a fine loan collection of ferns, begonias and rare palms under the dome of Horticultural Hall.

Dreer's pond lily basin will undergo a few changes in its construction. The bottom will be paved with brick to do away with the muddiness of the water. The *Victoria regia* has sent out its first blossom and a beauty.

The *Nymphaea rosea* and *myosotis* beds in the grand court attract every one's attention, especially so the forget-me-nots exhibited by J. S. Neligh & Co., of West-point, Nebraska.

The vines have begun to creep through the balustrades on the island and make this attractive feature of the lagoon more charming.

Mr. Hess, superintendent of Douglas county's floral exhibit, keeps up his floral display daily and the whole building is sweet as Arabia's rose scented breezes.

J. H. H.

SPokane, WASH.—Florists of this city supplied the luxuriant floral decorations for the recent reception at Roseland, B. C., to Lord Aberdeen, governor general of Canada.

#### Chrysanthemum Notes.

Plants benched early in June should, by this time, be in condition for a mulch of well-rotted manure. If they have made a vigorous growth and the soil is well filled with roots showing on the surface, it is time a mulch was applied. Later planted stock will get along for a week or two without being mulched, or until such time as the beds are in the condition described above. Before mulching go over the beds and cut out any suckers that are pushing up through the soil. It is well to take a little care in doing this and not tug and pull them up with a good sized piece of root from the plant, as is often the case when the work is done carelessly. It is far better to take a knife and cut the suckers away. Then try and have the soil in as even a condition as possible, using caution not to have it dry or the plants will absorb the manure too rapidly. The idea of a mulch at this time is to act as a protection for the young roots from the hot sun and drying winds, and also as a gradual nourishment. The manure should be well rotted and made as fine as possible, spreading it as even as can be and not too thick—just enough to cover the surface.

A watchful eye is a necessity now to keep the lateral shoots removed before they get too large and have sapped a great deal of the vitality from the main stem. It is therefore best to pinch them out as soon as they are large enough to handle without injuring the leading shoot that is to be retained. The early varieties must be given every encouragement possible from now on, as the production of fine blooms early in October depends greatly on the treatment given the plants during the next few weeks. They must

not be allowed to dry out or they will soon get stunted, and this means dry and hard wood with small foliage and short petaled blooms.

The plants need to be well syringed on hot days to keep the foliage in good condition and the sap flowing, so that in about four weeks from now they will be in condition to form the kind of bud that is essential for an early and well formed bloom. If any specimen plants are grown for exhibition or market purposes, care must be taken not to allow them to become drawn and leggy. They should be kept away from dark corners and given lots of ventilation. If any are grown outside and they show a tendency to get hard, it is best to put them indoors. For specimen plants that are well rooted a weak application of liquid manure every six or seven days will be beneficial.

C. W. JOHNSON.

#### New York.

DULL TIMES.—ALL FLOWERS AT SUMMER QUALITY.—VACATIONS IN ORDER.—IMPROVEMENTS GOING ON.—PERSONAL ITEMS, SERIOUS AND OTHERWISE.

New York florists just at present do not look for business. Occasionally some one dies, even in New York, and an order for a wreath or two is the outcome. The wreath is more likely to be made of galax leaves than anything else and a little cluster of peas, lily of the valley or roses in one corner constitutes the flower growers' share in the transaction. Asters, white, pink and purple are now in market but are of poor quality as a rule. There are plenty of other flowers that are also of poor quality. American Beauties are no longer peerless; the buds are about the size and shape of small acorns when they come in and as flat as a half dollar by

noon time. A half dollar will buy an armful of such and a dollar or two will transfer the ownership of the entire consignment from a good-sized growing establishment. Carnations are also at summer size and price and lily of the valley does not realize the original cost of the pips, hence the grower would make a comparative profit by throwing the pips away as soon as he had bought them and saving himself all farther trouble.

Clerks in many places are now away on their vacations. So the visitor in town finds the boss in charge of the deserted store, ill at ease over the obligation to remain there till the last and close up at night and longing for the two weeks to pass so that he may be relieved of the responsibility of opening up the place in person early every morning. Some are painting up and making repairs during the quiet time. J. K. Allen, on Twenty-eighth street, is having another big refrigerator built. This very enterprising gentleman evidently has his eye on some big American Beauty grower for next season for the new ice chest is devoid of shelves and can accommodate a whole forest of seven or eight foot stemmed Beauties. Johnnie Weir doesn't build ice chests; he buys them; in fact he will buy anything that he can get for his own price. The opportunity this time was furnished by Bennie Ezechel, who gives up the wholesale florist business on Twenty-eighth street, for the present at least, and betakes himself to the beaches. So Mr. Weir got the ice chest.

Down town on Greenwich street the irrepressible "Sinquillum" man still holds out, but apparently the gullible part of the native population has concluded that if it is to be fooled Coney Island is the preferable place at this season of the year

and the visitors are very wary, so although he displays the "English" Tuba Rugosa, thirty-six colors, will bloom in two weeks," the "Sinquillum" man has but little success in creating any enthusiasm over this wonderful discovery.

J. J. Hess, of Omaha, visited New York last week and made a pleasant call on several of the local florists and seedsmen.

Ford Brothers are the only wholesale florists here who are thoughtful enough to provide arm chairs for their visitors.

MacDonald & McManus are receiving grand flowers of *Cattleya gigas*, but customers for the beautiful things are scarce now.

Theodore Lang has been seen in town several times since he escaped from his friends amid a cloudburst of rice and a volley of old shoes.

Peter Barr has departed westward, bound for the Yellowstone Park. He expects to see New York again, however, before returning to England.

The list of intending visitors to the Omaha convention is lengthening, and New York will show up better than was anticipated.

John Finn has been appointed to take charge of the small parks between Fifty-sixth street and the battery.

Ernest Asmus packed up his rods, lines, reels, flies and nets and started for a fishing trip on Monday last.

Mr. Ulrich has recently returned from Omaha, where he has been in charge of the landscape work.

Ernst Asmus says that Carnot is not profitable as a winter forcing rose because of its demand for a rest in cold weather.

Visitors: Robert Craig, Philadelphia, Pa.; J. T. Butterworth, South Framingham, Mass.

John Ringier is no longer connected with Vaughan's Seed Store.



VIEW IN HANSCOM PARK, OMAHA, NEB.

## Boston.

P. & E. J. WELCH ENTERTAIN THEIR GENTLEMAN FRIENDS AT OLD ORCHARD BEACH.—SWEET PEA DAY AT HORTICULTURAL HALL.—SPLENDID EXHIBITS.—BUSINESS STILL VERY QUIET.—ROSES IMPROVE IN QUALITY.—NOTES AND COMMENTS.

Messrs. P. & E. J. Welch entertained a few of their friends in business, at their summer home at Old Orchard Beach, on Tuesday. Two dozen gentlemen, mostly from Boston, Providence and Portland comprised the party, which, had there been more room, might easily have been increased by several dozen more before the number of intimate business friends and associates of these two gentlemen would have been exhausted. The occasion was an unqualified success in every respect and the day one of the greatest enjoyment for all who participated. Most of the Boston contingent went by boat to Portland and thence to Old Orchard by train, the all night sail on the ocean at this season of the year being a vacation in itself. A drive in buckboards along the beach was enjoyed and when it came to refreshments, both solid and liquid, the hospitality of the hosts knew no bounds, while the many kind attentions of the lady members of their families added greatly to the pleasure of the guests. But little time was devoted to speech making, the attractions of the beach being too potent, but Mr. John Galvin who officiated as toastmaster managed to extract some interesting remarks from a few of the strangers, including a cyclonic onslaught from Mr. Warren Ewell which was supplemented by the "Maloney" song rendered in Mr. Galvin's best style.

Last Saturday was sweet pea day at Horticultural Hall. There was a superb display of these much-loved flowers and many delighted visitors were in attendance. H. B. Watts, F. A. Blake, W. H. Harrison, F. E. Chaffin and M. B. Faxon were the largest exhibitors. There were herbaceous plants in fine assortment from W. N. Craig and Rea Bros., also a fair show of hollyhocks and other flowers from various contributors. Robert Laurie was rewarded with a certificate of merit for dwarf *Tropeolum Vesuvianum*, of which an illustration appeared in the AMERICAN FLORIST last year. Mrs. A. W. Blake showed a fine specimen of *Cattleya gigas*.

Business is still very quiet and time hangs heavy on the hands of the store florists while their fellowcraftsmen in the greenhouses out of town are going through the broiling process of planting and putting houses in shape for next season's business. Roses are better in quality, generally, the greater part of those coming in being grown especially for summer cutting. Asters are getting plenty and there is a heavy supply of candytuft, feverfew, gypsophila and other outdoor garden products.

*Hypericum aureum* is one of the showiest things to be seen in the park and public plantations at this date. Its golden flowers are exceedingly effective and the long flowering period is another strong point in its favor.

One of the most trailing shrubs which Mr. Dawson has to show among the recent introductions at the Arnold Arboretum is *Conium japonicum*. It is a low spreading shrub, the branches being very drooping under their weight of cord-like fruit.

Japan's influence has not been on the list of introductions.

## Chicago.

STOCK IS OF INCREASING QUANTITY AND IMPROVING QUALITY.—TRADE IS FAIR.—NEW BEAUTIES ARE IN DEMAND.—CARNATIONS ARE BETTER THAN USUAL IN SUMMER.—HEAVY LOSSES BY HAIL.—NOTES OF PEOPLE AND THINGS.

The tide has turned, and both the quality and quantity of flowers show improvement from day to day. Most welcome is the new cut of American Beauties, for this flower is in constant and never satisfied demand. Beauties are not yet absolutely first-class, but they are good, nevertheless, and the demand is increasing as fast as is the supply.

Hot weather never fails to have a deteriorating effect on trade, and the last few days have been scorchers, but none of the dealers have serious complaint to make. The call for flowers has been all that could be expected, and about all that the supply could accommodate.

Among the finest blooms in the market are the Perles and Kaiserins, which seem to stand the hot weather with unusual fortitude this year. Carnations are also exceptionally good for summer flowers, and William Scott are about the best of the lot, although the Kohinor, one of Pennock's introductions of three years ago, is one of the finest whites in the market, and is being sent in by several growers who are making large cuts from plants in the fields.

Sweet peas are still in over supply and are of rather inferior quality.

Only three bowlers participated in the games last week. The Stollery brothers are enthusiasts in this sport and seldom miss a night, no matter how high the temperature. They are both showing marked improvement in their game. It will soon be in order to select a team to represent Chicago in the prize cup contest at the convention.

Thursday has been selected as the day for the next outing, as the boats to Milwaukee are badly crowded on Sunday. It is hoped and expected that there will be a good sized party, and each excursionist is expected to bring his lunch.

On Thursday evening Chicago was visited by the heaviest hail storm on record. The icy pellets were of almost incredible size, fully sufficient to perforate greenhouse roofs, but fortunately the storm extended over a belt only a couple of miles wide from north to south. It swept the west side of the city and a part of the north side, being most severe in the vicinity of West Madison street, where Herman Schiller lost nine-tenths of his glass. His greenhouses in the country were outside the storm belt. H. N. Burns, at 630 West Van Buren street, was a heavy loser. Not only was much of his glass broken, but many valuable plants were beaten down. Nelson Swain & Sons, Paulina street and Chicago avenue, lost most of their glass. E. Wienhoeber was one of those whose houses suffered the greatest damage. He has 14,000 feet of glass and nearly half of it was broken. At Garfield Park the hail demolished the glass in the conservatory. H. L. Halle was another heavy loser, and Vaughan's greenhouses at Western Springs lost over 3,000 panes of glass.

Andrew Muller and August Jurgens have returned from The Dells, Wisconsin, where they have been camping with Chicago's famous Apollo Commandery, Knights Templar.

J. C. McCullough, of Cincinnati, was a Chicago caller this week. Other visitors were A. J. Brown, of Grand Rapids, Mich., J. T. Boss, of Omaha, Neb., H. M. San-

born, of Oakland, Cal., and G. B. Wiegand, Indianapolis, Ind.

W. E. Lynch is spending his vacation in the east.

O. W. Freese has returned from the Pacific coast.

E. H. Hunt, who has been in ill health for some time, is now fully recovered and at his store as usual.

## St. Louis.

FLORISTS OF THE MISSOURI METROPOLIS HOLD THEIR ANNUAL PICNIC AND MAKE IT A HUGE SUCCESS.—WINNERS IN THE VARIOUS CONTESTS.—GOOD DELEGATION ASSURED FOR THE TRIP TO OMAHA.—TRADE IS VERY QUIET.

The principal event of the past week was the very enjoyable outing of the St. Louis Florists' Club and its friends which was held in Belleville on July 20. The special train leaving the Union Station at 9:30 a. m. was comfortably crowded, having about one hundred passengers aboard, and all prepared to have a good time. The day was ideal, a storm the night before having cooled the atmosphere to a pleasant temperature, while just enough rain had fallen to make the grounds in the best of condition. A band of five pieces accompanied the florists and entertained them during the hour's run to Belleville. Upon our arrival there we were met by the Belleville florists and a good time was commenced.

After lunch the athletic sports were started with the quoit contest, and during its continuance the shorter events were disposed of. A shooting contest was indulged in but owing to the unfavorable location of the grounds very poor scores were made. First prize in the shooting contest was carried off by Mr. Amman, of Edwardsville, Ill., and second by Max Herzog, of Gratoit, St. Louis county. Dancing was indulged in to some extent and at 7 o'clock, after a most enjoyable day, the train pulled out for home.

The winners in the various events were as follows: Quoit contest, C. McCraw; 100 yard run, Henry McCraw, second C. McCraw; hop, step and jump, R. Beyer; running broad jump, Mr. Alers; standing jump, R. Beyer; ladies egg race, Mrs. E. W. Guy, of Belleville, Mrs. Gutzman, second; girls race, Miss Jeungle; fat men's race, 180 pounds and over, Gus Egging, of South St. Louis. The competition in all of the events was close and furnished plenty of excitement. A game of cocked hat played with a wooden ball suspended from a convenient tree trunk attracted a crowd the entire day and was the occasion of much merriment. Despite the fact of there being a brewery on the grounds everything went on in the most satisfactory manner imaginable, and those having the matter in charge can congratulate themselves on having provided a most enjoyable outing for all who participated.

From latest indications there will be about eighteen St. Louis representatives at Omaha, and this number may be increased as there is enough attendance in sight to assure us a special car; all those tributary to St. Louis who can possibly do so are cordially invited to join our delegation. A rate of \$13.50 for the round trip has been made. Parties desiring further information can correspond with Mr. J. W. Kuntz, 822 Olive street.

Trade is very slow, funeral work being about all that is doing. Henry Berning has returned from his trip through Illinois, Indiana and Ohio. He reports Cincinnati as the deadest town on the continent.

R. F. T.



## THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.  
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The Advertising Department of the AMERICAN  
FLORIST is for Florists, Seedsmen, and dealers in  
wares pertaining to those lines ONLY.

Orders for less than one-half inch space not accepted.  
Advertisements must reach us by Wednesday to se-  
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

### The Convention.

The fourteenth annual meeting of the Society of American Florists will be held at Omaha, Neb., August 16 to 19, inclusive. The secretary, Wm. J. Stewart, 67 Bromfield street, Boston, Mass., will receive the annual dues in advance of the meeting and forward the 1898 badge by mail. S. B. Stewart, 119 North Sixteenth street, Omaha, is in charge of the trade exhibition, and will supply prospective exhibitors with all necessary information.

### On to Omaha.

The efforts of the AMERICAN FLORIST have at last resulted in a reduction in the rate of railroad fare to the S. A. F. convention. The Western Passenger Association has authorized a rate of one fare for the round trip plus \$2, or \$14.75 from Chicago, and \$13.50 from St. Louis. In territory within 150 miles of Omaha a rate of one fare will obtain. In territory between Chicago, Buffalo and Pittsburg the Central Passenger Association has conceded a rate of one and one-third fare for the round trip, upon the certificate plan.

The Chicago, Milwaukee & St. Paul railroad has been selected as the route from Chicago to Omaha, and the AMERICAN FLORIST is prepared to reserve for its friends berths in special Pullman palace cars leaving Chicago at 6:15 p. m. Monday, August 15, which will reach Omaha at 8:20 a. m. the following day.

Many of the eastern delegations will travel to Chicago over the Pennsylvania railroad upon the train leaving New York August 14 at 2 p. m., leaving Philadelphia at 4:30 p. m.; Washington, 3:30 p. m.; Harrisburg, 7:30 p. m.; Baltimore, 4:35 p. m.; arriving at Chicago at 5 p. m., at the same depot from which the Chicago, Milwaukee & St. Paul convention train will leave one hour and fifteen minutes later.

Eastern representatives are invited to join the Illinois party and should see that their tickets read "Via Chicago, Milwaukee & St. Paul railroad."

### Railroad Rates to Omaha.

A rate of one and one-third fare for the round trip, on the certificate plan, has finally been secured from all points in the territory of the Central Passenger Association, which includes everything between Buffalo and Pittsburg on the east and Chicago and St. Louis on the west, and north of the Ohio River. It is possible that special delegations from this territory may be able to make even better rates now than this rate has been conceded, but the one and one-third fare concession is available to individuals on any and all lines under the jurisdiction of the Central Passenger Association.

WM. J. STEWART, Secretary.

THOMAS EDWARDS, of New Brighton, Pa., has retired from business in favor of his son.

AUGUST 2 is designated as Flower Day at the Omaha Exposition and will be the occasion of an elaborate floral pageant.

H. M. SANBORN, of Oakland, Cal., who has been staying for a time at Bradley Beach, N. J., started for home on Tuesday last.

THE attendance at the Trans-Mississippi Exposition is already large and is increasing each week. The show is well worth seeing.

It is said that the odor of flowers is antiseptic and that during epidemics those who are employed where they constantly breathe the perfume are exempt.

THE Kezalink Valley in Roumania is entirely given up to the cultivation of roses, the essence of which is sold to perfumers in Paris at a very remunerative price.

JOHN N. MAY, receiver for Pitcher & Mandl, will sell at auction August 1, the firm's personal property and book accounts, judgments, notes, etc., amounting to \$12,129.15.

In reply to a note on the flowering of Mme. Salleri geranium, in our issue of July 16, several correspondents have sent us flowering specimens under that name. It must be remarked, however, that they are all sports more or less distinct from the common type of the variety in question, in the form as well as in the variegation of the foliage.

### The S. A. F. Presidency.

An important note intended for publication in our issue of July 23 was unavoidably held over. It was from Mr. W. N. Rudd and stated that he is not a candidate for the above office.

### A New Remedy for Aphides.

Kraft's Plant Tonic has been tested on fruit trees and chrysanthemums infested with aphides at the Cornell University Experiment Station, and proved effective. The black aphid is such a troublesome pest to chrysanthemum growers that they will be glad to learn of anything likely to banish it from their premises.

### Catalogues and Cut Flower Price Lists Received.

J. M. Thorburn & Co., New York, N. Y., bulbs; Mrs. Theodosia B. Shepherd, Ventura-by-the-Sea, Cal., seeds, plants, bulbs; J. H. H. Boyd, Cagle, Tenn., tree seeds; W. J. Hesser, Plattsmouth, Neb., palms; Wm. F. Kasting, Buffalo, N. Y., cut flowers; Holton & Hunkel Co., Milwaukee, Wis., cut flowers.

### Piping Rose and Carnation Houses.

ED. AM. FLORIST:—(1) You will confer a favor by stating how many feet of 1½-inch steam piping are required to heat two three-quarter greenhouses, connected, each 20x60 feet, one for roses and the other for carnations. (2) State also whether one purlin will be sufficient to support the roof of each house.

E. M. H.

(1) If there is no glass in the side walls 600 feet of 1½-inch pipe will answer for roses and 450 feet for carnations. (2) One will answer with large sash base, but it will be better to have two. L. R. T.

### Greenhouse Building.

West Grove, Pa.—Dingee & Conard, eight commercial houses.

Dorchester, Mass.—J. E. Nelson, one commercial house.

Cochituate, Mass.—Warren Carter, one greenhouse.

Brookfield, Mass.—J. H. Le Favour, one forcing house.

Malden, Mass.—E. S. Converse, one violet house 9x60.

### Omaha Hotels.

Following is a list of Omaha hotels convenient to the convention hall:

HOTEL.	CAPACITY.	AMERICAN PLAN.	EUROPEAN PLAN.
Hotel Grand, 16th and Howard.			\$1.00-1.50
The Millard, 13th and Douglas.	100	\$3.00 up.	\$1.50 up.
Arbide Hotel, 13th and Douglas.	100	\$2.00	
Hotel DeBone, 14th and Capitolay.	450	\$2.00 up.	\$1.00 up.
The New Mercer, 12th and Howard.	300	\$2.00-2.50	\$1.00-1.50
Hotel Barker, 13th and Jones.	100	\$1.50	\$1.00
The Midland, 16th and Chicago.	150	\$1.50 2.00	\$.50 1.00
Drexel Hotel, 16th and Webster.	100	\$—	\$.75 up.
Murray Hotel, 14th and Harney.	100	\$2.50 up.	
Victoria Hotel, Dodge St. nr. 13th.	50	\$1.50 up.	
Dodge European (gentlemen only), 101-111 So. 13th.	40		\$1.00
Hotel Vendome, 414 So. 13th.	40	\$1.00-1.50	
The Windsor, 10th and Jackson.	50	\$2.00	
Hotel Garfield, 1515 Howard.	200		\$.25 up.
The Brunswick, 16th and Jackson.	200	\$2.00-3.00	\$1.00 up.

### Philadelphia.

STOCK IS FLOURISHING.—THE AVERAGE PRICE OF CARNATIONS—BUSINESS IS BETTER THAN IS THE SUPPLY OF FLOWERS.—KAISERIN IS THE BEST OF SUMMER ROSES.

We have had fine growing weather both inside and out the past two weeks, and stock for next season is making great strides forward. Carnations in the field are looking particularly well for this time of year. It would be interesting to know the average net price of carnations for the season. Many persons in seeing the quoted figures from time to time through the winter get an idea that from \$1.25 to \$1.50 per hundred would be about the average. A grower whose stock runs a grade or two above the general consignments, is reported to have said that his entire output for the season 1896-97 netted him 85 cents per hundred. The stock was handled entirely by one commission house. It would seem that this was very near the cost mark.

Business is quite good, retail dealers having to apologize for their meager stock to all customers unless they happen to want white roses, which are quite satisfactory. Kaiserins now being up to the winter mark and often better. It should be some one's good fortune to find a pink sport of this variety soon, and then there would be general rejoicing.

Joseph Heacock potted off a lot of American Beauty cuttings, part of which he placed on a table bedded with ashes, and part on an empty rose table, from which the earth had not been removed; after a month or so the difference was very marked in favor of the plants on the earth. After being planted out they made a very vigorous growth and are far ahead of the other lot, although now meeting with the same treatment.

John Jensen, of Thirtieth street and Lancaster avenue, is putting a new front in his store and making other improvements.

San Francisco.

THE CARNATION SUCCEEDS THE CHRYSANTHEMUM UPON THE PACIFIC COAST.—CALIFORNIA VARIETIES SENT EAST.—CARL KRUGER'S GOOD WORK.—CARNATIONS FROM THE EAST DO LITTLE IN THE REGION OF THE GOLDEN GATE.

Many of the growers are not as yet throwing out their old carnation plants. Portias are in good demand on account of the war, there being many regiments of soldiers camping in the vicinity. Red, white and blue decorations are in order, and Portia, McGowan and cornflowers make a pretty and patriotic combination. Portias are now selling at eight dozen for a dollar and white and Scott at six dozen for a dollar, a remarkable price at this time of year.

Most of the growers are through planting chrysanthemums. There will not be very many grown this year, owing to the demand for carnations as noted above. Last season was a very favorable one for outside chrysanthemums, owing to the lack of rain from October to December, and consequently inside stock did not pay the cost of growing. Bonnafon and such varieties, well done, wholesaling at from 50 cents to \$1 per dozen. This season, owing to the overproduction last year, only about one-fourth the usual quantity have been planted; and if we have an early, wet winter, those that have a good crop under glass will reap a harvest.

The California seedling carnations being tried for commercial varieties by Albert M. Herr, of Lancaster, Pa., are the twelve varieties exhibited by John H. Sievers at the convention of the Carnation Society of America held in Chicago last February. Helen Dean, a pink seedling from Albertina, Hannah Hobart and John Carhour, something new in the way of yellow, are of especial merit, and when disseminated will take the lead in their colors over any carnations on the market provided they do so well east as in California. The variety Hannah Hobart, is one of the largest carnations ever grown, three and one-half inch flowers being the rule while many of them are four inches in diameter. Carl Kruger is the grower and introducer of these varieties and has been working on them for four years past. Last year he sent out fifty varieties and fifty more this year that have been extensively planted by the growers around San Francisco for cut flower and fancy varieties. The twelve sent to Albert M. Herr are the cream of his labor and were selected for commercial purposes.

The varieties grown at Rendondo Beach have more or less of the Marguerite strain and in the Lois J. Haettel this is very pronounced. The reason carnations do so well in California is that they can be planted from sand to the open ground as early as February and need not be lifted until October. It seems strange, however, that very few of the eastern varieties do well here. Of those sent out last year Flora Hill and Mrs. Bradt are the only ones that have done well enough to be grown to any extent this year. It may be that they are over propagated, fed up and forced to such an extent to make so-called rooted cuttings at \$10 per hundred that they are impoverished and weak, full of bacteria and rust and do not do themselves justice the first season. They may do better after they have recovered from their severe treatment and have become more or less acclimated. It so far they have not been as good as native stock.

WASHINGTON, PA.—This city is to have a chrysanthemum show in the fall. It will be under the auspices of some charity.

ETOX RAPIDS, MICH.—Louis Lunberg has, from ten acres of ground, secured a yield of forty bushels of Alsike clover seed.

LITCHFIELD, ILL.—George Hanson, who has sold out his florist business at Springfield, Ill., will start a similar establishment here.

HOUSTON, TEXAS.—Mr. and Mrs. R. H. Byers celebrated their golden wedding last Wednesday, July 20. Mr. Byers is a minister and Mrs. Byers has conducted a flower store here for thirty-two years.

DES MOINES, IA.—The palm swindlers, who are becoming well known to the trade, secured eighteen plants of W. L. Morris on July 18. The loss was about \$50. It was the same game that has been worked successfully in many other places.

PADUCAH, KY.—Hunter Hough has sold the La Belle Park greenhouses to George Schmonse who will conduct the establishment in connection with his nurseries. The greenhouses will be closed until August 28 and in the interval will be thoroughly repaired and restocked. They have about 4000 feet of glass.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to the AMERICAN FLORIST for the year 1898 is entitled to a five-line want adv. free to be used at any time during the year.

SITUATION WANTED—By a young lady with good experience, for September or before, to take charge or assist in florist store. Address A. K. L. care American Florist.

SITUATION WANTED—By good gardener who wishes to have good place; 25 years of age, single; 12 years' experience. All references. Address JOSEF KOHOUT, 1575 W. 22nd St., Chicago.

SITUATION WANTED—As assistant or to take charge, by good all round man; 14 years experience under good growers. English; age 28; married, no children. GARDENER, Floral Park, N. Y.

SITUATION WANTED—By a single man with 5 years' experience; can take charge of section of rose houses or do general work. Western states preferred. Address M. S. C. care American Florist, Chicago.

SITUATION WANTED—In commercial or private place by practical florist, good grower and propagator; six years in last place; good references, English, married, age 25. Address G. A. HODGSON, Laconia, N. H.

SITUATION WANTED—By practical florist and designer. No. 1 grower of the roses, carnations, mums, violets. Good commercial or private position. Best references. Address FLORIST, P. O. Box 517, Alliance, O.

SITUATION WANTED—By gardener; English, age 30, small family; 25 years' experience in all-round work. Good orchid grower. Ten years with Sir W. Van Horne, Montreal. First-class references. J. H. HOLDBAY, 133 1/2 Alexander St., Montreal, Can.

SALESMAN WANTED—To take orders for Ornamental Trees, Shrubs, etc., for private places. Must possess a knowledge of habits and value of the more popular varieties and of landscape planting. State experience and salary required. THE LOVETT CO., Little Silver, N. J.

SITUATION WANTED—By a first class grower of roses, carnations, mums and general stock. Can give good references from three of the largest growers in Pennsylvania. Single; 10 years' experience. Address J. R. CARROLL, Buck Honey, Foster Brook P. O., McKean Co., Pa.

WANTED—A good canvasser to introduce new plants. A permanent position. Address P. S. E. care American Florist, Chicago.

WANTED AT ONCE—Young, single florist; good worker, as assistant to grow general greenhouse stock. Address J. S. LAMB, Joliet, Ill.

WANTED—A young, single, German florist, as an assistant in growing roses and carnations. Applicable must state wages wanted. 200 DE PARK FLORIST CO., New Castle, Ind.

WANTED—Man as foreman and general greenhouse worker. Also a youth with experience to assist in store. State salary required and particulars. Address A. H. H. BOGEL, Union, N. Y.

WANTED—A good florist; must be well experienced in growing cut flowers and a steady worker. Only a man, quick in action, and who is able to work without being watched, need apply. Wages \$25 per month with board by steady work and increase not excluded. Address CARL HIRSCH, Hilldale, Mich.

FOR SALE—Four greenhouses, near y new. Good retail stand. Address A. CLAUS, Springfield, Ill.

FOR RENT—Good paying retail bouves, new, of 5000 feet, in city of over 20,000. Renter to buy stock. Address A. B. care American Florist, Chicago.

FOR SALE—Small heater in running order, embracing boiler 20 feet, 4-in. piping, tank, valves, etc. Address GEO. B. MOULDER, Smiths Grove, Ky.

FOR SALE—No. 16 Hitchings hot water boiler in first-class condition, only used three years. Price \$100 cash. Address BELL MILLER, Springfield, Ill.

PARTNER WANTED—In cut flower and mushroom growing; only a few hundred dollars necessary. Address K. WILSON, 230 1/2 Malvern Ave., Hot Springs, Ark.

FOR SALE OR RENT—Five greenhouses with stock, everything convenient, in a thriving city; will rent or sell reasonable if taken at once. Prepared soil on place. Poor health is the reason for selling. Address MISS PAULENA ENGLISH, Oconomowoc, Wis.

FOR SALE—21 acres land, suited to gardener and florist, in city limits, St. Charles, Ill.; small house, and buildings all new; 35 miles from Chicago; two railroads; on street car line; near cemetery. Price \$3000. Address H. SWABY, Eldora, Iowa.

FOR SALE—Florist's place in one of the best cities in eastern Illinois; city water; heated by hot water, and doing a good business; 3500 feet of glass—three houses—near court house. This place will bear investigation. Address H. D. C. care American Florist.

FOR RENT—Three greenhouses; established trade; recently built. Good house, barn, half acre of land in a live N. Y. state city of 20,000 inhabitants; fine chance for live man; rent \$16.00 a month; good reasons for renting. Address OPPORTUNITY, care American Florist.

Boiler Bargain

Second hand boiler for sale for fifty dollars where it stands. Address T. H. LINSLEY & CO., Evanston, Ill.

CHICAGO LOTS FOR SALE!

One block from corner Lincoln avenue and Wellington street, a bunch of lots at \$25 per front foot, sewer and water. Suitable for greenhouse purposes. Address JAMES ROOD, JR., Tel. Main 3368, Room 5, 154 Lake St., Chicago.

FOR SALE AT A BARGAIN.

Florist establishment of over 10,000 square feet of glass; splendid situation, 8 lots, 35 ft. front; water, gas and electric light on street; greenhouses, office and barn all newly built, with all conveniences; heated by steam. Centrally located in city of 18,000 population in State of Indiana. Competition none to speak of. Leading establishment in the city. Steadfast cause of selling. Address INDIANA, care American Florist.

FOR SALE.

My entire plant of greenhouses, dwelling house, barn and workshop, horse, carriage, flower wagon, plumbing tools, 1500 feet of new glass 16x16 and 16x24, five acres good land, two acres fruit of all kinds. Stock to fill house this fall. Good market in cut flower trade. Call or write for further information. Poor health the cause of sale. Address A. A. WELDEN, Berlin, Conn.

FOR SALE.

FIFTY HORSE POWER BOILER with front and fittings complete, F. O. B. \$100.00. Is in first class condition, in use only five years heating school at low pressure..... Address JOSEPH KIFT, Manchester, Pa.

NOTICE

STOCKHOLDERS' MEETING.

CHICAGO, July 16, 1898. Stockholders of the American Florist Company: You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in Hotel Bellevue, Omaha, Neb., Thursday, August 18, 1898, at 10 o'clock p. m., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting. J. C. VAUGHAN, Pres. M. BARKER, Acting Sec'y.

IT IS GOOD BUSINESS POLICY TO MENTION THE AMERICAN FLORIST WHEN YOU WRITE TO AN ADVERTISER.

**Buffalo.**

HOT WEATHER MAKES BUSINESS NO PLEASURE AND TRADE VERY POOR.—ROSES HAVE A WEARY LOOK.—FLORIST'S CLUB PLANS AN OUTING AND TRANSACTS OTHER BUSINESS.—THE OMAHA DELEGATION.—NOTES AND COMMENT.

Florists in and around Buffalo have done nothing the past week but look for cool places and wish for rain. The weather, of course, makes flowers very poor. Sweet peas show the want of water, while roses have a weary look.

The Florists' Club met last Friday and transacted its business in a thorough manner. The schedule for the chrysanthemum show was carefully gone over and was satisfactory to the committee. Wednesday, August 3, was selected for our annual outing. President Scott appointed Messrs. Kasting, Anderson and Buddenborg a committee to select the place and make all arrangements. The Bedell house on Grand Island will be the place, and with this committee a good time is assured for all. Phil. Scott was added to the committee to help out in the sporting part, that being his forte.

The boys going to Omaha have not completed their plans, but from present indications at least seven and probably ten will go from here.

The only Billy Boas, representing Edwards & Docker, of Philadelphia, called last week, and by his looks and good humor he must have seen all the trade and met with success.

The Sage of Drerville, Walter Mott, was here last week and, as usual, called on all and looked happy. He promised to see them again in Omaha. H. J. Wise, of East Aurora, was also a visitor this week.

**EVANSVILLE, IND.**—The annual flower show of the Press Club will be held in the second week of November. C. C. Genung is chairman of the committee having the affair in charge.

**BUCYRUS, O.**—J. F. Norton is remodeling his greenhouses preparatory to the removal of his Nevada establishment to this city. He has a large and rapidly increasing business, largely a shipping trade.

**CHICAGO TO OMAHA.**

Take the Chicago, Milwaukee & St. Paul Railway. It is the best road and shortest line between the two cities. It has the most perfect track and the finest equipment. The sleeping cars are palaces, and the dining car service equal to the best hotels.

For the meeting of the Society of American Florists, the Chicago, Milwaukee & St. Paul Railway will sell tickets at one fare plus \$2.00 (\$14.75) Chicago to Omaha and return on August 14th and 15th. Tickets good to return to and including Aug. 25th.

A special solid Vestibuled Electric Lighted train will leave via Chicago, Milwaukee & St. Paul Railway from Union Depot at 6.15 p. m. on Monday, August 15th, on arrival of trains from Philadelphia, New York, Boston, Buffalo, Pittsburg, Cleveland, Toledo, Detroit and Milwaukee, arriving Omaha 8:20 a. m. Tuesday.

In purchasing through tickets from East of Chicago, see that they read over the Chicago, Milwaukee & St. Paul Railway from Chicago to Omaha.

Reservations can be made in sleeping cars and tickets purchased on application to H. E. Laing, City Passenger Agent, 95 Adams Street, Chicago.

**August Rölker & Sons**  
**Cape Flowers, Cycas Leaves, Florist Baskets, SUPPLIES.**

Send for trade list; also for prices on fall bulbs, azaleas, etc., imported to order. Address

**52 Dey Street, NEW YORK.**

**Wholesale Flower Markets**

**CINCINNATI, July 28.**

Roses, Beauties, select	15 00
" " medium	8 00@10 00
" Brides, Bridesmaids	2 00@ 3 00
" Meteora	3 00
" Perle	2 00@ 3 00
Carnations	50@ 1 00
" fancy	1 00
Sweet peas	.15@ .20
Tuberose, Stocks	3 00@ 4 00
Gladoli	3 00
Smilax	10 00
Adiantum	1 00
Asparagus	50 00

**ST. LOUIS, July 28.**

Roses, Beauties	2 00@15 00
" Meteora	2 00@ 5 00
" Brides, Bridesmaids	2 00@ 4 00
" Perle	2 00@ 3 00
" Kaiserina	2 00@ 6 00
Carnations	.75@ 1 00
Asters	1 00@ 2 00
Smilax	12 50

**MILWAUKEE, July 28.**

Roses, Beauties	5 00@20 00
" Brides, Bridesmaids	2 00@ 4 00
" Perle	1 00@ 3 00
" Meteora	2 00@ 4 00
" Kaiserina	2 00@ 5 00
Carnations	.40@ 1 00
Sweet peas	.08@ .15
Gladoli	3 00@ 5 00
Smilax	10 00@15 00
Adiantum	.75@ 1 00
Common ferns	.20
Asparagus	50 00

**BUFFALO, July 28.**

Roses, Beauties	5 00@25 00
" Brides, Bridesmaids	2 00@ 6 00
" Meteora	2 00@ 6 00
" Perle, Niphotos	1 00@ 3 00
" Kaiserina	2 00@ 6 00
Carnations, ordinary	.50@ 1 00
" fancy	1 00@ 2 00
Lily of the valley	4 00
Sweet peas per dozen bunches	.30@ .50
Smilax	10 00@15 00
Auratum lilies	8 00@10 00
Asters	.75@ 1 00
Adiantum	1 00@ 1 25
Asparagus	50 00@75 00

**LOUISVILLE, July 28.**

Roses, Beauties, per dozen	.75@1.50
" Brides, Bridesmaids	2 00@ 3 00
" Meteora	2 00@ 3 00
" Kaiserina	2 00@ 4 00
" Perle	1 50@ 2 00
Carnations, fancy	1 25@ 1 50
" common	1 00
Sweet peas	.15
Mignonettes	.25
Smilax, per dozen	1 25@ 2 00
Adiantum	.75
Asparagus, per string	.50

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ROSES, CARNATIONS, AND ALL KINDS OF SEASONABLE FLOWERS IN STOCK.

**WM. F. KASTING** WHOLESALE COMMISSION FLORIST.

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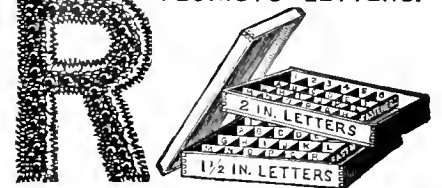
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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters 1 1/4 or 2-inch size, per 100, \$3.00. Script Letters, \$4. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Cycas Wreaths, Moss Wreaths, Ferneries and Jardinières, Wheat Sheaves and Immortelles.

New Catalogue of all FLORISTS' SUPPLIES on application. For the trade only.

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60, 52, 54 and 56 N. 4th St., PHILADELPHIA, PA.

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122 W. 25th St., NEW YORK CITY.

**M. Rice & Co.**

Exclusive Importers and Manufacturers of...

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**TIN FOIL**

2 AND 4 DOMINICK STREET,

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**Hardy Cut Ferns!**

SPHAGNUM MOSS, 40c BBL.

Bouquet Green, Galax Leaves, Laurel Roping, Ac., Ac. Everything in green line always in stock at

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**GALAX LEAVES,**

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CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

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Go Everywhere  
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Write for special quotations on large orders.

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**J. B. DEAMUD**  
51 & 53  
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Special facilities for shipping with unequalled re-  
turns for good stock. Open night and day.

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Wholesale  
Growers  
...of  
**Cut Flowers.**

600,000 FEET OF GLASS. We can fill  
out with a large variety of Roses and Cut  
flowers. We ARE Headquarters for fine AMERICAN  
BEAUTIES. Write for a catalogue to yourself.

FOR THIS WEEK ONLY:

Am. Beauties	12 per doz.	1.00	1.25
Bridesmaids	12 per doz.	1.00	1.25
Bridesmaids	12 per doz.	2.00	2.50

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dreds of advertisements which helps the other

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88 Wabash Ave., CHICAGO.

Wholesale Dealers and  
Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

## Wholesale Flower Markets

CHICAGO July 29.

Roses, Beauties	.....per doz.	1.75@2.00
" Brides	.....	1.00@ 3.00
" Meteors, Kaiserles	.....	1.00@ 4.00
" Bridesmaids	.....	1.00@ 3.00
" Siebrecht Perles	.....	1.00@ 3.00
" Testouts	.....	1.00@ 3.00
Carnations, common	.....	.25@ 1.00
Asters	.....	1.00@ 2.00
Auratum lilies	.....	4.00@ 8.00
Harrill	.....	3.00@ 4.00
Lily of the valley	.....	5.00@ 5.00
Sweet peas	.....	.04@ .08
Gladiol	.....	2.00@ 4.00
Asparagus	.....	.50@ 1.00
Common ferns	.....	8.00@10.00
Smilax	.....	40.00@75.00
Pansies	.....	.25

**Lynch**  
WHOLESALE FLORIST.  
19-21  
E. RANDOLPH ST.  
CHICAGO

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GROWER OF ROSES. DEALER IN  
CUT FLOWERS.

## J. A. Budlong,

37-39 Randolph St. CHICAGO.

## S. B. WINTER,

(Successor to WINTER & GLOVER.)

21 Randolph St., Chicago.

**HIGH  
GRADE CUT FLOWERS,**

**PACKED RIGHT,**

so they will reach you in just as good condition  
as they reach us.

**WIRE DESIGNS: A Full Line. Write us for  
our Illustrated Catalogue.**

IT IS A GOOD PLAN TO

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For next season you may want some  
Novelties illustrated on plates of some  
Special Stationery, Covers, Catalogues,  
Booklets, Card Holders, Blotters, Calen-  
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NOW** the pressure time of year is the  
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Original Designing. Ideas Practically Shaped.

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Growers of **CUT FLOWERS**  
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Headquarters  
For American Beauties. ....CHICAGO

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**WHOLESALE CUT FLOWERS  
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WIRE WORK  
A SPECIALTY. 88 WABASH AVE. CHICAGO.

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A complete line of Wire Designs.

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....ROSES, and a full line

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Fresh Cut Flowers, Florists' Supplies  
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Write now. Delays are dangerous.

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DIRECTORY Of Florists, Nur-  
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men of the United States and Canada. Price  
Two Dollars. In Flexible Leather Binding,  
Three Dollars.....

AMERICAN FLORIST COMPANY  
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# MacDonald & McManus

... SUPPLY ...

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EVERY DAY

ONLY HOUSE IN NEW YORK HANDLING  
EXTRA FANCY STOCK FOR SPECIAL OCCASIONS.

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Choice Carnations

Choice Roses.

## Traendly & Schenck

NEW YORK CITY

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WELCH BROS., Proprietors.  
The New England Headquarters  
for the best grade of flowers at all  
seasons of the year...

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## THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,  
112 and 114 West 24th Street,

Telephone 733-18th. NEW YORK.

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Special Attention Given to Shipping Orders.  
Mention American Florist.

## JOHN YOUNG, ROSES, CARNATIONS, VALLEY

and all other choice cut flower stock.

51 W. 28th Street, NEW YORK.

Price list on application.

## Wholesale Flower Markets

NEW YORK, July 27.

Roses, Beauties	2.00@16.00
" Bridesmaids, Testouts, Brides	.50@ 3.00
" Morgans, Meteors	.50@ 2.00
Carnations	.30@ .50
Lily of the valley	1.00@ 3.00
Sweet peas, per 100 bunches	1.00@ 1.50
Longiflorum, Auratum	1.00@ 2.00
Smilax	8.00@10.00
Asparagus	40.00@50.00
Cattleyas	25.00@40.00
Asters	.25@ .40

BOSTON, July 27.

Roses, Beauties	5.00@15.00
" Morgans, Meteors	2.00@ 4.00
" Brides, Bridesmaids	1.00@ 4.00
Carnations	.25@ .50
Lily of the valley	2.10@ 3.00
Sweet peas	.10@ .15
Smilax	10.00@12.00
Asparagus	50.00
Adiantum	.50@ .75
Asters	.49@ .50

PHILADELPHIA, July 27.

Roses, Beauties	3.00@16.00
" Brides, Bridesmaids	2.00@ 4.00
" Kaiserlins, Meteors	3.00@ 5.00
Carnations	.30@ .75
Lily of the valley	2.00@ 4.00
Japanese lilies	4.00@ 6.00
Sweet peas	.15@ .25
Cattleyas	.35 00@40.00
Smilax	12.00@15.00
Asparagus	25.00@35.00
Adiantum	50@ .75

## One Good Flower

is worth fifty poor ones  
but is harder to find in  
summer. ❀❀❀❀

Give us timely notice and

we will do the best we can

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Roses shipped to all points. Price list on application.

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CARNATIONS SMILAX.

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Careful Shipping to all parts of the country  
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404-412 E. 34th St. Near Ferry.  
Open for Cut Flower Sales at 6 o'clock  
Every Morning.....

DESIRABLE WALL SPACE TO RENT  
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JOHN DONALDSON, Secretary.

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## FRANK MILLANG, CUT FLOWERS,

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408 E. 34th Street,

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## Asparagus Plumosus Nanus.

Strings 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

## Now They're Cheap!!

FLOWERS, ALL KINDS.  
PLENTY OF THEM AT

J. K. ALLEN'S 57 WEST 28th STREET,  
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TELEPHONE 382 38th St.

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AND DEALERS IN ALL

FLORISTS' SUPPLIES,

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## JAMES M. KING Commission Dealer in CUT FLOWERS.

Good Money for your Flowers.  
Good Flowers for your Money.

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## GEORGE A. SUTHERLAND, Cut Flowers and Florists' Supplies WHOLESALE.

67 Bromfield St., BOSTON, MASS.

Wholesale Florists JOBBERS IN

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CARNATIONS, BRIDESMAIDS, BRIDES. FLORIST'S SUPPLIES.

FLORISTS' VASES.

Horticultural Auctioneers.

84 HAWLEY STREET, BOSTON.



THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYMEN.  
A. L. BROOKE, Pres.; E. ALBERTSON Vice-Pres.;  
GEORGE C. SEAGER, Rochester, N. Y., Sec'y.

J. S. PETERSON, of Chicago, is greatly improved in health as a result of a course of treatment at a sanitarium.

SAN JOSE SCALE is as yet unknown in Nova Scotia and strong efforts are being made to prevent its importation.

REPORT SAYS that of currants Pres. Wilder, and of pears, Kieffer, are the only varieties to yield well in western New York this year.

SPRINGFIELD, MASS.—A. G. Jacobs has a Crimson Rambler rose upon which there have been at one time 5000 buds or blossoms.

CALIFORNIA is the greatest horticultural state in the Union, New York is second and Illinois third. Illinois has \$4,777,083 invested in nurseries.

PLAINFIELD, N. J.—R. G. Chase & Co., nurserymen, sued W. B. Hayes for \$15,777 bringing the action before Justice Storms, who is an agent for them. The plaintiff appealed and secured a reversal of Justice Storms' decision under the statute which forbids a justice acting in a case in which he has a personal interest.

THE price of nursery stock in Canada has not advanced because of the recent enactment excluding stock from the United States. Nurserymen in the States who had booked orders in the Dominion, which they were not permitted to fill because of the act, bought stock at wholesale from Canadian dealers and packed their orders inside the boundary. The considerable surplus of Canadian grown shrubs and trees enabled them to do this without loss.

Springfield, Mass.

The annual sweet pea show of the Hampden County Horticultural Society, held July 20 and 21, brought out such an unusual wealth of exhibits that a larger hall than that usually employed was chosen for the occasion; in fact it was one of the largest sweet pea shows ever held in America. The season has been favorable for the growth of sweet peas, and the flowers shown this year were of unusual merit. The interest of amateur growers centered upon the Eckford silver cup, which was won by W. J. Eldred, but the holder of the cup from last year, C. M. Hartzell, of Holyoke, was a very close competitor. Of the Eckford set for the current year bushes of Sutherland is a very pretty light pink, yet no improvement on former sorts of its color; Chancellor is the most pleasing; Colonist is not good, Duke of Sutherland is a fine dark maroon yet of no special merit, Prince of Wales is an improvement on Her Majesty, Lady May Currie is the nearest to orange yet produced. Of other new varieties Bertie Hamilton and Minnieha are much alike. Burpee's Ear of All is the same as Extra Early Blanche Terry, except that it is as it came implies. Waller's Dawn and Grace are much alike, and Dolly Ardor is of no use. Fannie Hutchins is good one of the best of the year, but is somewhat like Stella Marise. Modesty is very pleasing, Oriental is distinct and good, and one of the best American introductions of the year. Pink Cupid has better colors than White Cupid.

J. A. B. Co. of ... staged son

very fine flowers in class 1. D. W. Brainerd, of Thompsonville, Conn., was entered in nearly every class and was the winner of several prizes. His flowers were well grown. W. J. Eldred, of West Springfield, made the largest class entries. His flowers were excellent in size and stem. H. H. Fisk, of Chicopee, and Mrs. H. M. Olier, A. H. Smith, Edith Smith, of West Springfield; R. A. Houston and S. H. Howes, of Holyoke, all amateur growers, made fine exhibits.

Rev. W. T. Hutchins, of Indian Orchard, filled one large table for exhibition only, as did the B. L. Bragg Company. The Sunset Seed and Plant Company offered seedling A, which was very distinct and beautiful. Sam. Hamilton, of Roaring Springs, Pa., exhibited several seedlings of merit.

The awards were as follows: F. A. Blake first in seven classes, second in two; S. W. Brainerd, first in five, second in four; W. J. Eldred, first in eight, second in nine, third in one; Mrs. H. M. Olin, first in two, second in two; H. H. Fisk, first in seven, second in two; A. H. Smith, first in one, second in one; R. H. Houston, first in one; S. H. Howes, second in two; H. Wilson Smith, second in one.

Rev. W. T. Hutchins and the Bragg Company were awarded diplomas for their excellent displays. Honorable mention was awarded to Mrs. Chadwich for Burpee's American seedlings. The Sunset Seed and Plant Company received a certificate of merit for seedling A. Sam. Hamilton was given honorable mention for miscellaneous seedlings. Miscellaneous awards were to W. T. Hodge and D. W. Brainerd for hollyhocks, Mrs. Eldred and Mrs. Olin for nasturtiums, H. A. Dreer, Philadelphia, and D. W. Brainerd for petunias, H. Wilson Smith for table centerpiece, and F. A. Blake for carnation Bon Ton.

The Chapel, Miller Company, formerly the C. R. Miller Company is now located in a new store, which looks very neat and attractive. Mark Aitken has also moved and is now in the center of the dry goods business section. He is completing three houses for the growing of carnations and violets.

C. F. Fairfield's property is advertised to be sold by the sheriff. It seems entirely unneeded for, and very likely cutting prices is responsible for it.

It is rumored that H. Grout will add several thousand feet of glass to his plant this fall, especially for his new carnation Conch Shell. B. M.

Quincy, Ill.

Everyone is busy remodeling houses and preparing for winter, but further than that they have little to do save keep weeds down and pray for rain. There is little business and less first-class stock.

C. F. W. Gentemann has planted 1000 roses upon the benches and they are as handsome a lot of plants as one would care to see. He is the only local florist so far who has announced his intention of attending the S. A. F. convention at Omaha. C. G.

BEVERLY, MASS. There have been collected and destroyed in Beverly this season, under the direction of the Beverly Improvement Society 12,347 belts of tent caterpillar eggs.

NEW BRITAIN, CONN.—Edward H. Eggert will make his establishment one of the largest in this vicinity by erecting two new greenhouses each 20x100. The new structures will be fully up to date.

The Royal Tottenham Nurseries Ltd.

Eate of A. M. C. Jongkind Coninck

DEDEMSVAART, nr. Zwolle, NETHERLANDS.

Managing Director: A. M. C. VAN DER ELST.

WHOLESALE GROWERS OF

Hardy Perennials, Aquatics (especially new and scarce varieties), Azaleas, Rhododendrons, Hydrangeas and Conifers, beg to announce that their catalogue containing a good many rare and new plants is in the course of preparation and copy may be had on application.

....AUTUMN 1898....

One Million

Flowering Shrubs; full assortment; all sizes.

Half Million...

Deciduous Trees for street, lawn and avenue planting.

200,000 Vines, Iris, Clematis, Actinidia and other sorts. Correspondence solicited.

THE WM. H. MOON CO. MORRISVILLE, PA.

FOR FALL '98 AND SPRING '99 DELIVERY

A SPLENDID ASSORTMENT OF

FIELD-GROWN HARDY ROSES

Clematis, Ornamental Shrubs and Trees, Pæonies, herbaceous Plants, Small Fruits, Fruit Trees.

Special quotations gladly submitted by letter.

Jackson & Perkins Co. Newark, New York.

HARDY SHRUBS

Assorted in 25 Varieties.

My selection \$50 per 1000. Descriptive catalogue and price lists for the trade.

SAMUEL C. MOON,

MORRISVILLE, Bucks Co., PA.

OUR SPECIALTIES ARE

Azaleas, Roses, Rhododendrons

New and rare hardy plants for forcing. Novelties in Ferns raised by the largest London grower. The newest and best varieties of roses, H. P. and Tea sorted from a French raiser. Write us and ask for quotations. We import direct to Boston to meet the demand from Canada and New England States.

F. Brunton & Co. IMPORTERS & EXPORTERS OF NEW AND RARE PLANTS, 136 Boylston St., BOSTON, MASS.

HARDY

Herbaceous Perennials

THE MOST COMPLETE STOCK IN AMERICA.

PÆONIES, PHLOX, IRIS, DELPHINIUMS, ETC., ETC.

JACOB W. MANNING,

The Reading Nursery, READING, MASS.

ESTABLISHED 1854

Surplus Stock

Can be disposed of by advertising. Try it.....

This Size "Ad." Costs Only \$1.00.

AMERICAN FLORIST CO., CHICAGO.

HOW TO GROW MUSHROOMS My 21 pp. book free to buyers or intending buyers of spores, to others 10c each. New supplement on cultivation by E. L. GARDNER included. First importation of the new spore due at this port Aug 25. Prices on application. C. C. Watson, Juniper & Walnut sts., Phila., Pa.

Cincinnati.

FLORISTS' CLUB HOLDS ITS ANNUAL PICNIC.—BIG CROWD AND A WARM TIME.—BASE BALL AND BOWLING.—CONVENTION MATTER NEEDS STIRRING UP.—NOTES.

On July 21 our florists and their friends picnicked at Coney Island. It was an ideal picnic day and everybody had a good time. The florists were out in full force, they never having had such a large crowd. Harry Baer was made captain of the base ball team. Wm. Murphy, as umpire, kept things straight. A. Heckman was the only man who dazzled pitcher Charles Critchell. The prizes offered were \$7 to the winning team and \$3 to the losers. The following were on the winning team: Chas. Critchell, Harry Baer, Moorman, G. Sunderbruch, Linfoot, Wilson, Leonard, Heckman and Chas. Gardner. The bowling contest was a hot one from start to finish. Three prizes were offered for highest scores. The first prize was 100 ten cent cigars, the second prize 100 five cent cigars, and third 100 stoggies. The following team captured the first prize. A. Heckman, G. Sunderbruch, F. Heckman, W. Heckman and R. Witterstaetter, total 743 points. I have heard very little said about the Omaha convention and regret that I can not say for sure that a good delegation will go for here.

Robert A. Kelly will remove his Fourth street store to 416 Walnut street on August 1.

Mr. Wm. Mann, of the Cincinnati Cut Flower Co., has returned from a two weeks vacation. H. SCHWARZ.

Omaha.

UNION MEETING OF THE NEBRASKA AND IOWA HORTICULTURAL SOCIETIES.—EXCELLENT PRACTICAL PAPERS.—THE WEEKLY BOWLING SCORE.

The Nebraska State Horticultural Society and the Southwestern Iowa Horticultural Society held a union meeting at the Commercial Club room, Board of Trade Building, July 26, 27 and 28. President G. A. Marshall, Arlington, Neb., opened the session; all formalities were waived and the society went in for business. C. S. Christy, of Johnson county, Neb., read a paper on packing and marketing apples, followed by J. P. Jackson, of Glenwood, Ia., who read a valuable essay on the "Different Varieties of Apples." Peter Youngers, Jr., of Geneva, Neb., contributed an address on keeping apples of different varieties. Mr. Youngers, being superintendent of the Nebraska horticultural exhibit at the Trans-Mississippi Exposition, has had excellent opportunity for observation in this line, having had in his charge 160 barrels of apples of seventy or more kinds packed in various methods and kept in cold storage. He has found a temperature of 36° to be most favorable, with wrappings, first of oil paper or common butter paper, with an outer covering of newspaper. This appears to prove that many varieties that are valueless in fall or early winter can be kept over till May and June, and put on the market at a good profit. J. A. Hogg, of Shelton, Neb., read a paper on the codling moth, E. F. Stephens, of Crete, Neb., one on planting, gathering and marketing strawberries, and Jas. Russell, of Wymore, Neb., who will market this year 60,000 baskets of peaches, read an essay on this luscious fruit. Silas Wilson, of Atlantic, Ia.; A. Van Kirk, of Glenwood, Ia.; C. C. Marshall, Arlington, Neb.; J. P. Hess, Council Bluffs, Ia.; C. H. Whitford, Arlington, Neb.; and H.

C. Raymond, Council Bluffs, Ia., all gave the societies valuable ideas through their various papers.

The Florists' Club bowlers still "roll" regularly. Here is the score made Monday, July 25:

	1st.	2d.	3d.	Av.
Donaghue, Sr.....	151	159	115	142
Davey.....	159	142	121	141
Hadkinson.....	147	161	113	140
Shaw.....	144	133	140	139
Wilcox.....	121	135	156	137
Swoboda.....	125	153	129	136
Chapin.....	155	120	121	132
Henderson.....	120	131	130	127
Floth.....	128	110	113	117
Donaghue, Jr.....	117	120	103	115
Zimmer.....	92	103	117	104

J. H. H.

CLYDE, O.—E. Hall & Son, who conduct large greenhouses here, have dissolved partnership. W. E. Hall will continue the business.

**Just Arrived!** We have just received a fine lot of fresh seeds of

PANDANUS UTILIS..... \$6.00 per 1000.

Last chance for our JARDINIÈRE FERNS in 2 1/4 inch pots.

**SIEBRECHT & SON, NEW ROCHELLE, N. Y.**

**FERNS**

PTERIS TREMULA, strong, ready to shift, to 4s. \$3.50 per 100 \$30.00 per 1000

N. EXALTATA (Sword Fern)..... \$4.00 per 100

N. EXALTATA Bostoniensis..... \$5.00 per 100

N. CORDATA..... \$6.00 per 100

N. DAVALLOIDES Furcans..... \$10.00 per 100

Address R. WITTERSTAETTER, Sedamsville, O.

**Asparagus Sprengeri**

SEEDLINGS ALL SOLD.

Fine Plants, \$8.00 per 100. Sample by mail 10 cents.

American Rose Co., Washington, D. C.

**ASPIDISTRA** *Lurida fol. var.* just now in good condition without leaves, good roots with sprouts, \$6 per 100; sample, 50¢ per doz. post-paid. *Canna "Florida"* for trial 10 cents.

Asparagus Sprengeri Seed..... 100, \$1.00  
Fresh from the vines..... 1000, 8.00

Pampas Grove Nurseries, Greenland P. O., Florida.

**ROBT. CRAIG & SON**

**Roses, Palms**

and Novelties in Decorative Plants.

Market and 49th Street, PHILADELPHIA PA.

**SPECIALTIES** IN BEST .....VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

VIOLETS.

Prices low—Send for list.

**WOOD BROTHERS, FISHKILL, N. Y.**

SMILAX from 2-inch pots \$1.50 per 100; \$13.00 per 1000.

HYDRANGEA OAKS, from 3-inch pots \$5.00 per 100.

GERANIUMS, from 2-in. pots \$1.25 per 100; \$20 per 1000.

" " 3-in. pots \$1.00 per 100; \$35 per 1000.

" " 4-in. pots \$6.00 per 100; \$30 per 1000.

Cash with the order—Send for samples.

**FRED. BOERNER, Cape May City, N. J.**

When writing mention the American Florist.

**"NOVELTY" TULIP**

For Florists' Forcing.

White, shaded with beautiful rose pink. Best selling Tulip in the market last season. Bulbs ready in September.\* Write for prices.

INTRODUCED BY

**Vaughan's Seed Store**

HEADQUARTERS FOR "FANCY" BULB STOCK.

CHICAGO: 84-86 Randolph St. NEW YORK: 14 Barclay Street.

**PALMS and FERNS**

The Largest Stock of PLANTS IN THE WEST

**GEO. WITBOLD** 1708 HALSTED ST. CHICAGO

**ORCHIDS!** Arrived in Fine Condition

Oncidium Varicosum Rogersii \$15 per dozen.

Oncidium Kramerii 2 to 3 leaves, \$15 per doz....

**LAGER & HURRELL, Summit, N. J.**

**CHINESE PRIMROSES**

15,000 single mixed colors, 2-in. pot. \$2.00 per 100

Cineraria ready Sept. 1st..... 2.00 "

150 Asparagus Sprengeri, 3-inch pot. 5.00 "

Ferns for Jardinieres..... 3.00 "

Pansy Seed 1/2 oz..... \$2.00  
Oz..... 3.50

**Jos. H. Cunningham, Delaware, O.**

**2000 Smilax**

First-class 3-inch stock, \$2.50 per 100; \$20 per 1000.

**THE E. HIPPARD CO.,** YOUNGSTOWN, OHIO.

**25,000 Smilax** Extra strong plants out of 2 inch pots ready for immediate planting at the lowest price ever yet quoted, \$1.00 per 100; \$8.00 per 1000. Cash with order.

Bear in mind this is strictly first-class stock and there is a large saving in freight, buying out of 2-inch pots. First come, first served.

**South Side Floral Co.,** SPRINGFIELD, ILL.

It is good business policy to mention the

**...American Florist**

when you write to an advertiser.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION

EVERETT B. CLARK, Pres.; JOS. A. BOIGIANO 1st Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

UNDER a recent ruling of the postal authorities order sheets may be sent out with catalogues only when bound as a part of the book, but the leaves may be perforated so as to be easily detachable.

B. SUZUKI, of Suzuki & Iida, passed through Chicago last Saturday on his way to Yokohama. Mr. Suzuki says that the largest size of Japanese *Lilium longilorum* bulbs will probably be very scarce the coming season.

WATERLOO, NEB., JULY 26.—Crop prospects on the whole are good. Corn is doing well, but could stand more rain. Vines are promising and are hardly in need of rain as they will stand more dry weather than corn.

SHEBOYGAN, WIS.—The Landreth Seed Company runs its establishment day and night and is putting in a new electric light plant installed with a capacity of 150 lights. The company now has nearly 10000 pea pickers in the fields in this vicinity.

MR. GEO. A. BISHOP, of Bermuda, intimates that some of the statements imputed to him in a communication on the Harrisii lily disease, which appeared on page 1464 of our issue of July 9, are not in accord with the facts. He states that there is no occasion to send anywhere for good propagating stock, a plentiful supply being obtainable on the island, and that instead of being overdosed, the land is very much under-fertilized with good chemical manures of the right sort.

Importance of Selection in Seed Growing.

The articles by Prof. W. W. Tracy that have appeared from time to time in the AMERICAN FLORIST on the subject of seed breeding, are of especial interest and very opportune. The question of selection, conscious selection, is bound to become a greater factor in growing plants for seed, or for any other purpose, than it has been, and it is undoubtedly true that he who has the best and clearest mental conception of an ideal type of plant will meet with the greatest success. This may be illustrated by the character of the lettuce now forced for the Boston market. The more extensive growers are not willing to run the risk of the failure of a single crop by planting seed which they happen to find on the market, so grow their own seed. Various strains of lettuce have been developed which for forcing purposes are vastly superior to the types from which they have sprung. It may be said, and truthfully, that much of the selection which has evolved our present strains and varieties of plants was of an unconscious nature. Variations were only noted and perpetuated with no distinct ideal in mind of what they should be or might ultimately become. But the right sort of conscious selection will do more for the evolution of a type in a few years than can be brought about by unconscious selection through many years.

While plants generally resemble their parents it is true that they resemble their parents very differently. They differ from their parents. In the improvement of any type the individual differences cannot be overlooked, and though the ideal may exist in the mind of the breeder

many interesting variations will occur which he may be tempted to perpetuate, even though not pointing directly toward his ideal. It is even possible to develop different strains from the same plant by making use of these side branches, which may, by their own characteristic variations, suggest a new ideal for a different purpose. New uses of plants perhaps require that they possess new attributes, new characteristics, so that one's ideal must sometimes be changed because of the changing conditions of the market and the new demands.

But I believe that in the long run the man who becomes the most successful in the breeding of plants is the man who early in his career establishes his own ideal of what a certain variety should be, and then adheres most rigidly to the type of that ideal. The better and clearer his conception the greater will be the progress toward the goal.

I always feel like giving encouragement to any seedsmen who has a proper ideal in his mind and who is making honest efforts to give us better vegetables or flowers. It seems to me, however, that if each would make a careful description of his own ideal and when the plant had been improved to such an extent as to conform or nearly conform to his ideal, see that the distinctive characteristics of his efforts are properly set forth in his catalogue, we shall then have a better knowledge of what is being done in seed breeding. We may confidently expect to see the business of seed growing, as well as that of the seed dealer becoming specialized to a greater and greater extent, and when people learn that Mr. Smith or Mr. Jones has a strain of pansies or cabbages that is superior, even though for special purposes, they will not be satisfied with anybody's seed. Intelligent growers will first seek to know the ideals established by the different seed breeders and their success in making their plants conform to those ideals, then place their orders accordingly. W. E. BRITTON.

Tiffin, O.

To the credit of the florists he it said that they know a good thing when they see it. In the instance at hand they knew it when they heard of it through the medium of the AMERICAN FLORIST. I refer to the 10,000 *Asparagus plumosa* seedlings, which Mr. Lewis Ulrich recently advertised for sale, and which were gobbled up in no time. He states that orders came from various parts of the country, fairly pouring in on him, the result being that his stock was sold out much sooner than he expected. Moral:—Advertising pays.

Coal ashes as a fertilizer may or may not have many adherents. In Mr. Ulrich's case it has been demonstrated beyond a doubt that common coal ashes make one of the best of fertilizers. A strip of ground which for its negative qualities could be compared with the desert of Sahara, has been rendered fertile, and is producing a crop of corn the sight of which would make a Nebraska farmer green with envy. Here is another instance. A pear tree which for the past few years rarely bore any fruit, will yield bushels this season. "Coal ashes did it," says brother Ulrich. But whatever ashes may do for corn and pear trees, his roses were exempt from this experiment. Figuratively speaking, there are no ashes on his roses. The young stock looks clean, healthy and vigorous, and from all indications there will be plenty during the coming season. HOTO.



TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only. HENRY A. DREER, Philadelphia, Pa.

COLD STORAGE VALLEY ALWAYS ON HAND.

CASES of 2500 pips, extra quality, \$25.00; per 100, \$12.00. CASES of 3000 pips, good quality, \$25.00; per 100, \$10.00.

GLUCAS & BODDINGTON CO., 501 & 503 West 13th St., NEW YORK CITY.

"BEST OF ALL" TOMATO (FOR FORCING) "ENGLISH" MELONS (FOR FORCING) FLOWER SEEDS FOR FLORISTS Catalogues on application. WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., NEW YORK, N. Y.

Manufacturers and Dealers BAGS COTTON SEAMLESS, BURLAPS, ETC. SECOND HAND BAGS BOUGHT AND SOLD. CINCINNATI BAG CO. Second and Walnut Sts., CINCINNATI, O.

BURPEE'S SEEDS PHILADELPHIA. Wholesale Price List for Florists and Market Gardeners.

The Only Machine on the market for automatically filling and sealing seed packets. The Brown Bag-Filling Machine Co. FITCHBURG, MASS., U. S. A.

The ILLER GRAND HOTEL, OMAHA. A new, strictly first-class, fire-proof EUROPEAN HOTEL. Three Cafes in Connection, Centrally Located, Reasonable Rates. (See hotel list in this paper)

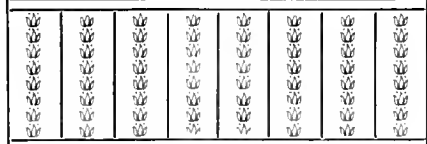
C. E. LARZELERE, JOHN DUNN, JR. WM. LARZELERE & CO. (Established 1866) Custom House Brokers Licensed under U. S. Laws. Notices Public authorized to administer Customs regulations. PHILADELPHIA: 126 South 4th St. NEW YORK: 121 Pearl St.

With correspondents in principal parts of U. S. and Europe. All matters relating to Customs laws attended to on both Imports and Exports. Information given as to classification and values, and method of shipping goods to and from U. S. Florists can save time and money by consulting us in writing or person at our Philadelphia or New York offices.



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## The American Florist Company's



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WITH UPWARDS OF

# 3,000 NEW NAMES

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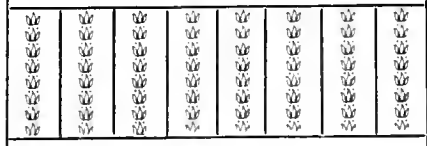
## Florists, Nurserymen And Seedsmen

Of the United States and Canada arranged both by States and Post Offices and all names Alphabetically.

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# \$2.00

IN FLEXIBLE LEATHER  
BINDING, \$3.00.



# American Florist Company

324 Dearborn Street,

= CHICAGO, ILL., U. S. A.

**Helpful Reminders.**

It primroses, cinerarias and calceolarias are not worth raising, it is because the gardener is not equal to the task. While they do not sell for a high price, choice plants will always sell for something, and many other plants will not. You can put to use some plants that are not strictly first-class, but they must be good or nothing. Start them all now in a cold frame, which is the best because it will keep them close to the light, protected from draughts of air, and insure moisture. Leaf mold put through a sieve, with some loam and sand, is best for seed pans. It is well to use shallow boxes; put in a layer of broken pots and cover with a half inch of sphagnum moss, then lay on half an inch of the prepared soil. Have the soil well dampened and quite smooth on the surface. Be extremely careful to have this all ready before opening your seed paper; sow the seed on the surface, in rows as nearly as you can. Cover the box with glass, allowing very little opening for evaporation. As soon as the seed germinates the glass may be removed and water given to prevent drying; a fine spray should be used to avoid disturbing the delicate plants; the frame should be kept shaded. They will make root quite rapidly and as soon as four leaves are discernible they should be potted in light and porous soil, well fertilized. The cold frame or small greenhouse where the benches are close to the light are best for pot plants. While they must not be allowed to dry out they will not grow healthily if made soaking wet. Keep shifting them to larger pots as fast as roots begin to run around looking for room. Growth will be slow until January, but at no time should they be checked or crowded; each leaf should have room. In early spring, just before the blooming season, it is well to cut off a few of the leaves. Well grown plants should be in 6 to 8-inch pots for flowering.

Freesia bulbs should be sorted out and started now. Your ivy geraniums should now be in 4-inch pots and seedling marandias in 3-inch pots.

Don't forget while repairing and making alterations in your greenhouses that sub-watering is the most desirable and beneficial. Look up the best methods and keep in line with the progress of the times.

C. B. W.

**St. Joseph, Mo.**

Ninety-six degrees in the shade, with scarcely a breath of air is what we are having at present writing.

Roses are scarce and of poor quality, with but little demand for them except for funeral work. Outdoor flowers are more plentiful but sell slowly. Most of the florists are well along with rose planting. Some are through with it and are now cutting blooms from their first planting. There are no new greenhouses being built except a conservatory at King Park, which will be a much needed and a very acceptable addition.

Mr. Magens after six years' service, has severed his connection with E. J. Stoppel.

Wm. Krumin & sons have moved their cut flower store from South Eighth street to 794 Lehigh street.

F. S. Kuld and wife with their little son have returned from a month's visit at Manitou and other Colorado points. Mr. Kuld's children are snowballs these weeks and are now being to start with the necessary at 90 in the shade is too much of a charge.

# PALM SEEDS! ORCHIDS!

Order NOW for coming season DIRECT your seeds of

COCOS WEDDELIANA,	-	-	\$3.00 per 1000
“ GLAZIOUUI,	-	-	4.00 “
GEONOMA GRACILIS,	-	-	3.00 “
“ IMPERIALIS,	-	-	4.00 “
ARECA LUTESCENS,	-	-	3.50 “

Freight paid to New York. Cash with order. Packing most carefully done. Large export of all best Brazilian Orchids Apply for quotations. Frequent steamers to New York.

## KROMER & THIEME

Cable Address: KROMER, RIO.

Caixa 904, RIO DE JANEIRO, BRAZIL.

## ASPARAGUS

50,000 plants in 2½-inch pots, \$5.00 per 100. Xpress; 24 for \$1.50 by mail. . . . Specimens for 8-inch pots, \$6 per 12.

## A. BLANC & CO. SPRENGER.

PHILADELPHIA.

### EXTRA HEAVY Clean Stock!

#### Kentia Belmoreana

6-in., 5 to 7 leaves, . . . \$15 to \$24 per dozen.  
5-in., 5 to 6 leaves, . . . 12 “

#### Kentia Fosteriana

6-in., 5 to 6 leaves, . . . \$12 to \$18 per dozen.  
5-in., 4 to 5 leaves, . . . 9 to 12 “

#### FIELD GROWN CARNATIONS...

A fine lot will be ready for Sept. delivery.

### THE COTTAGE GARDENS

QUEENS, N. Y.

## CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3-inch pots. Acknowledged by florists as the finest strain of Primroses to be had. Single var. In most named colors. \$2.50 per 100, \$20.00 per 1000; double white, red and rose, \$4.00 per 100. Extra plants added to help pay expressage. Adams and P. S. Express. Cash with order, or one-half cash and balance C. O. D.

JOHN F. RUPP, Shiremanstown, Pa.  
The Home of Primroses.

## E. G. HILL & CO.,

RICHMOND, INDIANA.

### Cycas Revoluta Stems

Produce at sizes 3 to 6 lbs. each. . . . 10 sets, per lb.  
Please Mention the American Florist.

### Azaleas THE FINEST STOCK IN THE WORLD

### Palms SANDER,

### Bay Trees BRUGES, BELGIUM.

### Araucarias A. DIMMOCK,

60 Vesey St., NEW YORK.  
Mention Am Florist when writing

### VERY CHEAP AND FINELY SHAPED BELGIAN PLANTS

AZALEA INDICA, very fine stuff, well budded, \$3, \$4, \$5 to \$20 per 100.  
AZALEA RUSTICA, flure pleno (double), well budded, \$4, \$5, to \$8 per 100.  
AZALEA MOLLIS, bushy plants, well set with buds, \$2, \$3 to \$5 per 100.  
AZALEA MOLLIS, hybrid (single rustica), well set with buds, \$3, \$4 to \$8 per 100.  
RHODODENDRONS, grand stuff, well set with buds, \$3, \$4, \$5 to \$8 per 100.  
Palms, Dracenas, Aspidistras, etc., etc. All the above are of the best market varieties.

### JEAN BRACKE, The Nurseries

LOOCHRISTY, nr. Ghent, (BELGIUM).

# PALM

Seed. FRESH ON HAND

All kinds of PHOENIX SEEDS

A New Shipment of . . . . .

Kentia Belmoreana and Forsteriana will arrive in a few weeks.

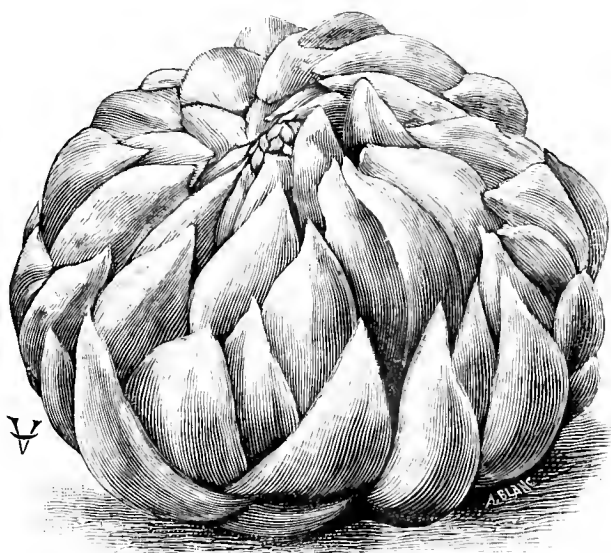
J. L. SCHILLER 404 EAST 34th STREET, NEW YORK CITY.  
Always mention American Florist.

### THE FINEST WINTER FLOWERING PLANT OF THE CENTURY

## Begonia Gloire de Lorraine

THIS fine variety keeps up a succession of bright rosy pink blossoms throughout the winter, and is invaluable for florists' work. H. B. May, who was the first to bring this striking novelty into popularity, holds the finest stock in the world. Price \$20.00 per 100, packed free. Orders for export carefully packed.

H. B. MAY, Dyson's Lane Nurseries, Upper Edmonton, London.



# AGAIN!

...FIRST...

## Roman Hyacinths

Of the Season Now Ready!

A FEW OF  
OUR SPECIALTIES:  
"London Market" Brand  
Lily of the Valley  
Pips,  
Japan Liliun Longiflorum,  
Lilium Harrisii,  
Azalea Indica and  
Bermuda Grown Freesias.

### Lilium Harrisii, Narcissus

### Paper White Grandiflora, Freesias Bermuda French and American Grown

## FULLY MATURED STOCK OF ABOVE ALSO READY!

PRICES LOW CONSISTENT, WITH QUALITY.

# Vaughan's Seed Store,

HEADQUARTERS FOR "FANCY" BULB STOCK.

CHICAGO: 84-86 Randolph Street.

NEW YORK: 14 Barclay Street.

### FOR SALE!

**3000 RUBBER TREES** in perfect health, half red, 4-inch pots, \$35; 5 1/2-in., \$45; 6-in., \$60 per 100. None better. Ready to shift.

**ARALIA SIEBOLDII**, 4-in., \$25; 5 1/2-in., \$35 per 100.

**FERNS** for dishes: *Pteris Cretica Major*, etc., 2 1/2-in., \$2.50; 3 1/2-in., \$7 per 100.

**NEPHROLEPIS**, 3 1/2-in., \$10; 4 1/2-in., \$15; 5 1/2-in., \$25; 6-in., \$30 per 100.

**ASPIDISTRA** (green), \$10 per 100 leaves.

**16 LARGE CYCAS** (Sagos), 5 to 10 feet high, very cheap, would exchange for *Pandanus Veltchii* or young *Kentias*.

Fresh cut *Sago* leaves, 3 1/2 to 4 feet, 75c and \$1.00 each; \$7 to \$10 per doz.

**PALMS** in variety—have 65,000 to select from. Medal awarded on Palms at World's Fair, 1893. 100,000 strong *Latanias* from boxes at \$30.00 per 100. We claim to have the Model 26 Greenhouses in Chicago. Come and convince yourself.

ALBERT FUCHS, 2059-73 N. Halsted St. CHICAGO.

### MEXICAN BULBS

We are booking orders for Fall delivery of *Amaryllis*, *Milla Bessera*, *Cyclobothra*, *Tigridis*, etc. Send list of wants for estimates. Catalogue firms will find these bulbs cheap for arranging attractive collections.

**Cacti and Orchids**—We keep a supply the year round for attend to orders from florists.

**Mexican Parrots**—This is the last month we receive orders. Double Yellow Heads, \$10 per doz.; Red Heads, \$18 per doz. Florists dealing in birds will find these cheap import prices.

J. A. McDOWELL, P. O. Box 167, City of Mexico.

## Dutch Bulbs

HYACINTHS, TULIPS, CROCUS, ETC.

RUDOLPH VAN TIL & CO., Hillegom, Holland.

American Representative

L. C. BOBBINK, Rutherford, N. J.

ASK FOR CATALOGUE.

# BULBS For FLORISTS.. For SEEDSMEN.

VAN ZANTEN BROTHERS, HILLEGOM, - HOLLAND.

# Our Good Book...



THE American Florist Company's Directory of the trade lists both alphabetically and by states and towns every one of the 13,500 persons or firms in North America engaged in the Florist, Seed or Nursery business. It states in which particular branch of the business each one is engaged, a feature of great value to those who issue catalogues, as by its guidance mailing to those not interested in your goods may be avoided and many times the cost of the book will be saved in postage and printing, to say nothing of disappointment.

## THE AMERICAN FLORIST COMPANY.

324 DEARBORN STREET

CHICAGO, ILL., U. S. A.

Bound in boards, 351 pages, postpaid, \$2.  
Bound in flexible leather, postpaid, \$3.....

**SMILAX** Extra strong, 3-inch at \$2.50 per 100, also some 3-inch CYCLAMEN, 75c to \$1.00 per dozen.

W. P. RANSON, Junction City, Kan.

**Good Smilax** to make room, 12 1/2 cents per full string. Express prepaid....

Orders need on short notice. Cash with order, please.

HENRY C. SCHWIEMANN, Danvers, Ill.

California Carnations.

ED. AM. FLORIST.—"E. L." in the AMERICAN FLORIST of July 9, referring to carnations sent to Mr Herr from California, has evidently been misled in his remarks by his experience with carnations introduced from California several years ago, known here as Redondo stock, which, originating in southern California, are grown there extensively in the fields and gardens for cut flowers. The carnations Mr. Herr has under trial are in no way connected by crossing with Redondo varieties; they are in fact raised from seed obtained by crossing a European variety with Wm. Scott, Daybreak, Mme. Albertini, Anna Welb, Silver Spray and Mrs. E. Reynolds. The varieties sent to Mr. Herr are the best selected from 1,500 seedlings. Selection was made for commercial purposes only, after three years' trial; they have been raised and grown in San Francisco, in greenhouses with artificial heat, under the same methods of culture followed in the eastern states for the production of cut blooms during the winter months.

While California has many advantages over, as "E. L." states, less favored eastern regions in growing a great variety of plants out of doors, owing to the mildness of the winter months, it is certainly for that very mildness of climate that the growing of high grade cut flowers in California requires more attention than in the eastern states, where the temperature is under the control of the grower under glass, with the benefit derived from the circulation of air caused by sufficient artificial heat. The very small amount of artificial heat which the grower in California, on account of the high outdoor temperature, can use without running his houses too warm for the production of high grade blooms, is against California in regard to growing carnations under glass, which even in this state, is the only method by which we can produce flowers of good quality during the season when they are most in demand.

We confidently advance the opinion that Mr. Herr's California carnations will prove even a greater success in the east than in San Francisco, where for the past two years they have sold at fancy prices, unless the new introductions of this season and other novelties being raised show a great advance upon standard varieties. C. KRUGER.

KINGSTON, ONT.—The Canadian Florists' Association will hold its first annual convention at Toronto, Ont., in the second week of September, and a programme has been prepared for the occasion. O. K. Johnson, a member of the executive committee, attended a recent session at Hamilton. He reports that at none of the western Canadian cities are carnations grown as well as they are in Kingston.

LEGISLATION.—Geo. Souster takes a certain degree of pleasure in reading in the trade press of the operations of the palm swindlers. The game was worked on Mr. Souster early in the spring, probably the first time it was tried, but he did not say a word about it until he found that he was only one of many who were easily caught.

DEPARTMENT.—The flower show which has been so successful for the past three years will be repeated in September and Mrs. A. P. F. Earline, the director, expects this year's exhibit to eclipse its predecessors.

# ROSE PLANTS!

OUT OF 2 1/2 INCH POTS

AMERICAN BEAUTIES.....\$5.00 per 100. \$45.00 per 1000.  
 METEORS..... 3.00 per 100. 25.00 per 1000.

## Wietor Bros., ROGERS PARK FLORAL CO.

Wholesale Growers of CUT FLOWERS ROSE PLANTS...

51 WABASH AVENUE, ...CHICAGO...

### 40,000 FIRST QUALITY FORCING ROSES, READY FOR IMMEDIATE PLANTING.

Fully equal to those sent out the last six years, first class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

AMERICAN BEAUTY	3-in. pots, \$8.00 per 100.	LA FRANCE	4-inch pots, \$12.00 per 100.	PRESIDENT CARNOT
METEOR	KAISERIN	SUNSET	BON SILENE	BRIDE
PERLE	MME. HOSTE	NIPHETOS		
BELLE SIEBRECHT.	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 100.		

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bride, Bridesmaid, Perle, La France, Testout, Asparagus Plumosus, all sizes. MARIE LOUISE VIOLETS, young plants, well rooted. A. S. MacBEAN, Lakewood, N. J.

## Forcing Roses

FIRST-CLASS, CLEAN, HEALTHY STOCK.

We claim GOOD VALUE at these prices. Send for samples.

American Beauty.....	\$6.00	3 1/2 in. per 100	\$12.00
Papa Gontier.....	4.00		10.00
Pres. Carnot.....	4.00		10.00
La France.....	4.00		10.00
Mlle. Helena Cambier.....	1.00		10.00
Kaiserin A. Victoria.....	4.00		9.00
Perle des Jardins.....	3.50		9.00
Brides.....	3.00		8.00
Bridesmaids.....	3.00		8.00
Meteors.....	3.00		8.00
Clothilde Soupert.....	3.00		8.00
Mosella.....	3.00		8.00
Asparagus Sprengerl, 2-in. pots, strong.....	per 100,		\$5.00
Asparagus Plumosus, 2 1/2-in. pots, fine stock	"		7.00
Boston Fern 2 1/2-in.....	"		5.00
Nephrolepis Exaltata, 4-in.....	"		15.00
Ferns in assortment, 2 1/2-in.....	"		4.00
Arancharia Excelsa, 6-in. pots, 15-18-in. high	at \$1.50 each		
Cocos Weddelliana, 3-in. pots	at \$2.50 per doz.		
Kentia, Arcus, Lutarus, etc., large quantities	in all sizes.		

Write for Special Prices, on sizes you want.

VAUGHAN'S SEED STORE, Greenhouses: CHICAGO: Western Springs, Ill. 84-86 Randolph St.

**ROSES** Brides Bridesmaid ...Perles

3-inch Pots, \$1.00 per 100

**200 Grafted Bridesmaid**

4-inch Pots, \$10.00 per 100.

**S. J. REUTER,**  
WESTERLY, R. I.

**Roses**  
 Clean, healthy plants, from 3 1/2 in. pots, Perles, Bridesmaids and Brides \$5.00 per 100.  
 HIRAM E. WILSON,  
 134 Hayward Park, ROCHESTER, N. Y.  
 We like to have you tell our advertisers that you read our paper

**FOR FORCING!**

Brides and Bridesmaids, 3 and 3 1/2-inch pots, prepared for forcing, fine plants... \$4 per 100.  
 Bon Silene, Ophelia, Mme. Scharf... 4 per 100.  
 SMILAX, 2-inch pots... 1 per 100.  
 At these prices, cash invariably with the order.

**F. WALKER & CO.**  
 Box 316... NEW ALBANY, IND.

**ROSES..**  
 2-in. per 100 3-in. per 100  
 Am. Beauties... \$5.00  
 Perle... \$2.75 4.50  
 Bridesmaid... 2.75 4.50

MAPLEWOOD CUT FLOWER and PLANT CO.  
 PLEASANT HILL, MO.

**CHOICE 3-INCH PERLES**  
 For Immediate Planting.  
 Fine stock, which will make you money. Write at once. Also some extra nice 3-inch METEORS, and some good BEAUTIES and BRIDES. Samples on receipt of 25 cents in stamps.  
 W. H. GULLETT & SONS, Lincoln, Ill.

Choice JUBILEE and FLORA HILL CARNATIONS,  
 in 3-inch pots, at \$1.00 per 100.  
 Also SMILAX, in 3-inch pots, at \$3.00 per 100.  
**ROSES** in 3-in. pots, Brides, Siebrecht, Meteor, in 2 1/2-in. pots, Maids, Brides, Beauties. Send 50c or \$1.00 for samples and prices to  
 GEO. A. KUHL, PEKIN, ILL.

**Roses** With Good Heads and Substantial Feet....  
 BRIDE BRIDESMAID GONTIER  
 \$10.00 per 100, \$80.00 per 1000. From 1-inch pots, and they are good. Other desirable sorts in limited quantities.  
 GEO. L. PARKER,  
 807 Washington St., Dorchester, Mass.

**Surplus Stock of Roses**  
 CHEAP! Speak quick if you want them!  
 700 Beauties, 300 Meteors, 300 Brides in 3-in.; 100 Meteors in 4-in.; 700 Brides and 700 Bridesmaids in 2 1/2-in. GOOD PLANTS.  
 JOSEPH HEACOCK, - Wyncote, Pa.

Notes and Comments.

In one of the Philadelphia daily papers, the following advice on watering is given on the authority of a florist:

"Always water the plants in the evening in summer and in the morning in winter." Water a plant whenever it needs it would be better counsel here, but we must confess, all other things being equal, it is better to act upon the advice of that particular florist, for there is less evaporation taking place during the night than there is in daytime, consequently there is more likelihood of the water soaking down to the roots than when the plants are watered in the morning, as evaporation is so rapid in this climate that unless a well directed effort is made to water a very dry plant more than once in the morning it will very soon be just as dry as ever, apparently. It may be that this particular florist had in mind watering outdoors, and in that case it might be all right, but we would never under any circumstances think of allowing a dry greenhouse plant to remain so until night if found in that condition in the morning. These vague instructions are likely to do more harm than good. Writers on horticultural matters cannot be too explicit when endeavoring to convey an idea. "Boil it down," "Be brief," and "Cut it short," are all right in instructing the cynic who may be filling space in a journal devoted to horticulture and who is not a horticulturist, but I am happy to notice that your columns are free from that kind of reading matter. E. L.

FERTILIZATION OF CUCUMBERS.

I was very much amused by a recent article in a contemporary, in which the writer questions the fact that cucumber flowers do not have to be fertilized, or rather pollinated, before they will swell. The erudite personage in question must have been partaking of mixed drinks at the soda fountain on a hot day and got his knowledge of cucumbers mixed with that of melons, though even in the case of melons I believe it is the proper thing to wait till noon and get the house dry enough to let the pollen fly. Some of his efforts at pollination, however, had not been in vain, as can plainly be seen by the number of fruits with a bulb on the end—shown in an illustration accompanying the article to which reference is made. This is a fatal defect in a cucumber of salable size. I would advise the budding trucker, and the admonition is given in all Christian charity, not to get too deeply into the business, and to stay in bed as long as the average gardener. He will then have better looking cucumbers. G. J.

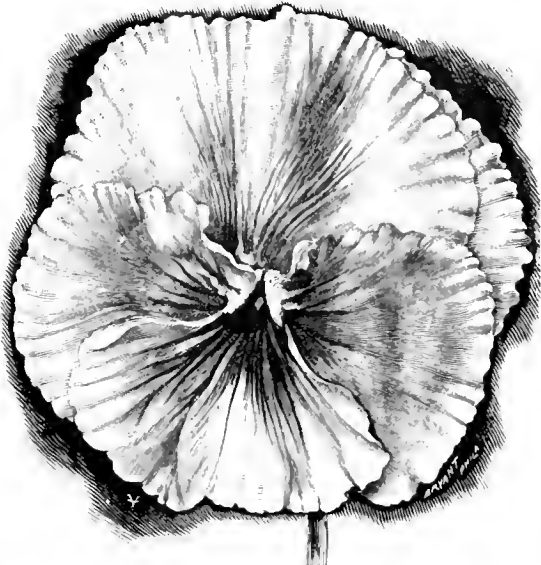
FITCHBURG, Mass.—Joseph Jackson, the veteran florist, died July 14 after a long illness. He was born in Halifax, Yorkshire, England, February 17, 1830, and gained an experience in floriculture before coming to America in 1864. In 1866 he won a silver medal at an exhibit of the Massachusetts Horticultural Society with a splendidly grown Campanula pyramidalis. He located in Fitchburg in 1868, first having charge of the establishments of J. M. Sawtell and Sylvanus Sawyer. He has made exhibits at the Worcester north fair for twenty-eight years, winning many premiums. Mr. Jackson leaves a wife, three sons and four daughters.

LENOX, Mass.—At the meeting of the Lenox Horticultural Society, on July 16, A. H. Wingett read a valuable paper on the cultivation of roses in the garden.

# NEW GROOP PANSY

## VAUGHAN'S "International Mixture"

Received the only reward for Mixed Pansies at the World's Fair. It is today better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price, per oz., \$10; 1-2 oz., \$5; 1-8 oz., \$1.50; trade pkt., 50 cts. (less 10 per cent for cash.)



## VAUGHAN'S "Giant Pansy Mixture"

This mixture is specially made up by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had in any other way. If your trade demands large flowers there is no better mixture. Price, per oz., \$4.00; 1-4 oz., \$1.25; 1-8 oz., 70 cts.; large trade pkt., 50 cts.

WE MAKE SPECIAL MIXTURES for florists who have preferences in the composition and proportions of colors and types.

GIANT TRIMARDEAU, Mixed, oz., \$1.00; 1/4 oz., 30c; pkt., 10c.  
 "CHICAGO PARKS BEDDING" MIXTURE, oz., \$1.00; 1/4 oz., 30c; pkt., 10c.  
 SEPARATE COLORS.—For price of these see Special Pansy Seed Circular, sent on application.

# VAUGHAN'S SEED STORE

NEW YORK: 14 Barclay St.

84 & 86 Randolph St., CHICAGO.

## ROSES! ROSES!

Brides, Maids, Kaiserin and Meteor from 2-inch, \$3.00 per 100; \$25.00 per 1000.  
 Brides and Meteor, from 3-inch, \$5.00 per 100; \$45.00 per 1000.  
 50 at 100, and 500 at 1000 rates. Cash with order.

ROBERT F. TESSON,  
 West Forest Park, - St. Louis, Mo.

**AMERICAN BEAUTY**  
 Fine young plants, healthy and strong, 3-inch pots, \$10.00 per 100; \$90.00 per 1000.  
**EDWIN LONSDALE,**  
 Wyndmoor, Chestnut Hill,  
 Cash with order. PHILADELPHIA, PA.  
 Money Order Office, Station H, P. B. H.

## ROSES

KAISERIN, 2 1/2-in. .... \$3.00 per 100  
 BRIDES, 3-in. .... 4.00 per 100  
 BRIDESMAIDS, 3 1/2-in. .... 4.00 per 100  
 METEORS, 3 1/2-in. .... 4.00 per 100  
 Very choice; grown for our own use. May be returned at our expense if not satisfactory.

BRANT & NOE, - Forest Glen, Ill.

## Chrysanthemums!

New and standard varieties. Extra fine plants from 2-inch pots. Send for price list. Discount on large orders.

H. WEBER & SONS, Oakland, Md.

## FORCING ROSES

	2 1/2-in.	3 1/2-in.
	Per 100	Per 100
BRIDE	\$2.50	\$2.50
BRIDESMAID	2.50	2.50
METEOR	2.50	2.50

White, Pink and Yellow Ramblers, same. Moonvines 120.00; Alternantheras \$18.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

## ROSE PLANTS!

500 METEORS, 3-in. pots, ..... \$2.75 per 100  
 2000 BRIDESMAIDS, 3-in. pots, .....  
 2000 BRIDES, 3-in. pots, .....  
 FIRST-CLASS STOCK

M. A. HUNT FLORAL CO.  
 P. O. Box 235. TERRE HAUTE, IND.

## Successful Growers are Wanted

To know that they can dispose of all their surplus stock by advertising in the American Florist. TRY IT NOW.

Northampton, Mass.

Trade in the florists' line is almost an unknown quantity and the stores wear a deserted look. A few palms and a bunch or two of carnations make up the usual window display. At the greenhouses, however, there is plenty to do and a chance to acquire a tan like that of our soldiers in Cuba. Chrysanthemums are nearly all planted and the early ones are looking well. Carnations in the field are, notwithstanding the dry spell, doing nicely, and, judging from the quantity planted out, the growers are putting considerable faith in the flower as a bread winner. The new French cannas are fast becoming popular as bedding plants and fine beds of them are to be seen in different parts of the city.

Work on Horace W. Field's new houses is progressing and he hopes to have them finished in time to plant carnations.

G. W. THORNILEY.

Winnipeg, Manitoba.

The floral exhibits at the industrial show are just now attracting much attention. Richard Alston, of the Royal Greenhouses, and A. H. Philpott contribute the bulk of the display of the professional grower, and, considering the season, their exhibits are highly creditable. One of the most beautiful of the floral designs is emblematic of hope and is composed principally of sweet peas, white carnations, roses and adiantum. There is a display of several dozen varieties of geraniums and fuchsias. There are also many well-grown gloxinias, begonias, lilies, palms and decorative plants. The amateur floriculturists are not largely represented, but their displays are, nevertheless, very excellent.

## CANNAS - Rambler Roses

From field for Fall delivery.

Also 30,000 SPIRÆA ANTHONY WATERER.  
40,000 LOCAN BERRY TIPS.

The Conard & Jones Co., WEST GROVE, PA.

## CHOICE VIOLET STOCK!

Violets from 2 1/2-in. pots. A-1 condition.  
Earlular, Marie Louise and Lady Campbell.  
\$3.00 per 100, \$25.00 per 1000.

ROSES Brides and Maids in 3-in. pots. \$4.00 per 100.

CRABB & HUNTER, Grand Rapids, Mich.

**WANTED!**

500 MANETTI OR  
ROSA CANINA.

HENRY EICHHOLZ, Florist,  
Waynesboro Pa.

## Pansies Worth Raising. NEW SEED.

Cash with order.

G. SOLTAU & CO., 110 Grand Avenue,  
JERSEY CITY, N. J.

## FIELD GROWN CARNATIONS.

GEO HANCOCK & SON Grand Haven, Mich.

## HERR'S PANSIES

SEND FOR REASONS WHY THEY ARE THE BEST.

...SEED...

Ready now at \$1.50 per 1/4 oz.

...PLANTS...

September to January; 75c per 100; \$4 per 1000.

...SMILAX...

Ready now, 75c per 100; \$5 per 1000.

Sample plants for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

## CHRYSANTHEMUMS.

Standard varieties, \$2.50 per 100. A list of varieties furnished on application.

ALSO Per 100

CYPERUS ALTERNIFOLIUS, 2 1/2-inch pots.... \$2.50

CYCLAMEN, white, pink, red, and white crimson eye, 2 1/2-inch pots..... 5.00

GREVILLEA ROBUSTA..... 2.50

GERANIUMS, fine plants, 2 1/2-inch pots, new and standard sorts (vars. on application) 2.50

ASPARAGUS TENUISSIMUS, 4-in. pots..... 10.00

VINCA MAJOR VAR., 3-inch pots..... 4.00

SMILAX, 2 1/2-inch pots..... 2.50

NATHAN SMITH & SON,

ADRIAN, MICH.

## SMILAX CELERY CABBAGE

SMILAX—2 1/2-in., large and healthy, \$1.00 per 100; \$8.00 per 1000. Just as good plants out of flats each plant carefully wrapped for shipment, 1/4 less above prices.

Field-grown Cabbage Plants, 15c per 100; \$1.00 per 1000; \$8.00 for 10,000.

Field-grown Celery same price. Celery, very large, transplanted once, 25c per 100; \$2.00 per 1000. White Plume and Giant Pascal. Cash with order. Samples by mail, 10c.

R. KILBOURN, Clinton, New York.

## WANTED!

50 OLEANDERS about seven feet high. Address, stating price delivered....

F. C. AUSTIN MFG. CO., Harvey, Ill.

## PANSY PLANTS NOW READY

30,000 nice seedling Pansy Plants, now ready from 1898 seed for November and later blooming, 50c per 100, \$2.50 per 500, \$4.00 per 1000. Samples free. Mittings Giant Flowering Pansy Seed, trade pkt., 50c; 1 oz., \$1.00. This seed will raise 50,000 plants to the lb.

THE MORRIS FLORAL CO., Morris, Ill.

## VEGETABLE PLANTS.

CABBAGE H Succession Flat Dutch, Autumn King, Drumhead, Savoy and other varieties.  
CELERY White Plume, Golden Self-Blanching, Giant Pascal, Golden Heart and other varieties.  
TOMATO Livingston's Stone, Paragon and other varieties. All above plants field-grown, 15c per 100; \$1.00 per 1000; \$8.50 per 10,000. If by mail add 10c per 100. Cash with order.

R. VINCENT, Jr., & SON, White Marsh, Md.

## CELERY PLANTS

White Plume, Golden Self Blanching and Giant Pascal.

Field-grown plants at \$1.00 per 100, \$8.50 per 10,000. Cash with order. Samples free.

C. M. GROSSMAN,  
WOLCOTTVILLE, IHO.

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Have you seen our 1898 Directory? It lists every florist in North America.

## ROEMER'S Superb Prize Pansies

The finest strain of Pansies in the World.

INTRODUCER AND GROWER OF ALL THE LEADING NOVELTIES.

Highest Award Inter. Exhibition at Hamburg, 1897. Catalogue free on application.

Fred. Roemer,

Seed Grower, - QUEDLINBURG, GERMANY.

## SEED! PANSIES SEED!

Roemer's Superb Prize Pansies, improved strain, new crop, ready now. This new mixture is saved from the very finest selected plants from all leading nurseries of art colors, without doubt the best strain in the market to-day. Mixed, per pkt. of 3000 seeds, \$1.00; 1/4 oz., \$1.50; 1/2 oz., \$2.75; 1 oz., \$5.00. White, yellow, black and blue, in separate colors, \$1.00 per pkt. of 3000 seeds.

CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa.

Crower of Extra Fine Pansies.  
Plants ready Sept. 15th.

## X PANSY X SEED

The finest of all the Giant flowering varieties to be had. No better grown; carefully selected; very large flowers, of perfect form and choice colors. All my florist customers praise this strain very highly; requires no better evidence of superiority. Every florist should be sure to sow of it this season. Per trade pkt. of 3000 seeds, \$1.00; half pkt., 50c. A pkt. New Forget-me-Not, "Jewel," with every order.

JOHN F. RUPP, Shiremanstown, Pa.

**H. Wrede,**  
LUNEBURG, GERMANY.  
PANSY SEED.

144 First Prizes, the highest awards  
World's Fair, and Hamburg, 1897.  
1000 Seeds, finest mixed, 25c.  
1 oz. " " " " \$3.75

Price List on application. Cash with order.

## FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,  
Lock Box 1528. BOSTON, MASS.  
Correspondence solicited.

## PANSY SEED Large Flowering.

Do you want to grow the finest Pansies. If so, buy the JENNINGS STRAIN. Always reliable. None better. Very finest mixed, \$1.00 per pkt. of 2500 seeds; \$1.00 per ounce. White, yellow, black, blue, red, pink and lavender in separate colors, \$1.00 per pkt. The above all grown from very finest stock. Cash with order.

E. B. JENNINGS, L. B. 254, Southport, Conn.  
Grower of the Finest Pansies.

## ZIRNGIEBEL'S GIANT PANSIES.

THE MARKET AND FANCY STRAINS are known by all the florists as the Standard Varieties up-to-date.

FRESH SEED NOW READY in trade packages at ONE DOLLAR each.

DENYS ZIRNGIEBEL, Needham, Mass.

Pittsburg.

THE FLORISTS' AND GARDENERS' DEBATE UPON THE ESTABLISHMENT OF A WHOLESALE HOUSE.—THE CLUB WILL PICNIC.—SEMPLER'S GLADIOLI.—HINKLE-HEID NUTRIALS.—JOTTINGS.

The Pittsburg and Allegheny Florists' and Gardeners' Club held its regular monthly meeting on Monday night, July 25, with a very fair attendance. The main subject, viz., "the advisability of opening a wholesale cut flower commission house" was warmly discussed pro and con by Messrs. Breitenstein, Hoffmeyer, Lauch, Semple, Langhans and Reineman. Fred. Burki made a proposition to assist in the starting of such a house and finally the whole subject was laid over until the meeting in August. The club concluded to hold either a picnic or have a boat excursion in the latter part of next month, and a committee, consisting of Fred. Burki, chairman, Wm. Lauch, James Semple, Geo. Oesterle and E. C. Ludwig, was appointed with full power to arrange for either form of outing. James Semple exhibited a very fine collection of gladioli blooms; they were very greatly admired and a vote of thanks was tendered him.

Fred. Hinkle, florist and gardener, was married last week to Miss Ella Heid daughter of J. B. Heid, the berry grower, of Allegheny. His brother florists extend their congratulations.

A. M. Elliott, formerly of Elliott & McGinness of this city, now representing J. M. McCullough's Sons, Cincinnati, O., was a visitor this week.

Alex. Nelson, in charge of the conservatories of Allegheny cemetery, Pittsburg, has been receiving congratulations on the arrival of a young Miss in his family. He will visit Atlantic City with L. I. Neff and family in about two weeks. Both gentlemen are ardent piscatorial artists and have the war fever bad enough to say they must serve their country in some form, even if only to catch some Spanish mackerel. REGIA.

HARTFORD, CONN.—The sweet pea show July 27 was a pronounced success. There were hundreds of vases of blooms on display, and a very pleasing feature was an address upon the flower, delivered in the evening by Rev. W. T. Hutchins, the sweet pea authority of Indian Orchard, Mass.

THE Gardeners' Chronicle.

A Weekly Illustrated Journal. ESTABLISHED 1841.

The "GARDENERS' CHRONICLE" has been for over FIFTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, much of the information furnished is of such general and permanent value, that the "GARDENERS' CHRONICLE" is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

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IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS—ENDORSED BY PROMINENT FLORISTS—USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT—200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN—CIRCULAR FREE—SKABCURA DIP CO. CHICAGO.

Kill AND SAVE the BLOOMS! THE Bugs! QUICKLY DOES IT.

Mention American Florist.

THIS IMPRINT ON AN ENGRAVING

**MANZ**  
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IS A GUARANTEE OF SATISFACTORY QUALITY. . . .

Manz makes illustrations for this paper.

THE HARRISII DISEASE can be prevented by immersing the bulbs for ten hours in a half solution of 30 per cent

**KRAFT'S PLANT TONIC**

This has been conclusively proven by experiments at Lincoln Park, Chicago. The Tonic also kills Hard Shelled Scale, Mealy Bug, and other insect pests without injury to the plant. A trial of a 25-cent bottle will convince you that a really remarkable insecticide has been discovered. Send for circular.

KRAFT PLANT TONIC CO., Rockford, Ill.

Universal Insecticide For Flowers, Trees and Animals.

Recommended and in use by the foremost florists and nurserymen in the land.

For Sale at the Seed Stores. ROSE MFG. CO. NIAGARA FALLS, N. Y.

THE BEST FOR ALL Florists' EXTRACT OF TOBACCO INSECTICIDE

FOR SALE BY SEED STORES 100 FREE PAMPHLETS WRITE TO LOUISVILLE SPIRIT CURED TOBACCO CO. LOUISVILLE KY

Please mention American Florist.

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The Wabash is the Only Line running sleeping cars and chair cars (free) between Buffalo and St. Louis and Kansas City.

Through sleeping cars between New York and Boston and St. Louis and Chicago run every day.

For further information apply to the nearest Railroad Ticket Agent, or to

H. B. McCLELLAN, G. E. A., 387 Broadway, New York City.  
J. D. McBEATH, N. E. P. A., 5 State Street, Boston, Mass.  
C. S. CRANE, Gen. Pass. & Tkt. Agt., St. Louis, Mo.

The MODEL Extension Carnation Support



QUEENS, N. Y., Feb. 16, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—I have tested your latest model Carnation Support and am free to say that I consider it the best wire carnation support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention.

Very truly yours, C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.  
MR. THERON PARKER, Dear Sir:—Your wire stake is certainly a gem. Without hesitating we endorse it as an up-to-date carnation support. Yours truly, DAILEDOUZE BROS.

W. HOBOKEN, N. J., Feb. 18, '97.  
MR. THERON PARKER, Brooklyn, N. Y., Dear Sir:—It gives me much pleasure to congratulate you upon your success in getting up carnation supports. I think that those I have had from you are about as perfect as anybody will be able to make them. They certainly fill my bill for an ideal carnation support, a thing I have been looking for for a long time. Wishing you every success in the sale of them, I am Yours truly, E. ASMUS.

Straight Galvanized Steel Rose Stakes

AT LOWEST PRICES.

Write for Prices, Circular and Special Discounts for Early Orders.

The Model Plant Stake Co.,

THERON PARKER, Mgr., Inventor and Patentee, 22 MORTON STREET, BROOKLYN, N. Y.

Please Mention The American Florist.

A material has been discovered for glazing which after thorough tests has been proven far superior to putty; it is called

**MASTICA.**

It is not affected by extremes of weather, and is thus especially adapted for greenhouses, etc. Send for descriptive circular of Mastica and Mastica Glazing Machines.

F. O. PIERCE CO., Sole Manufacturers

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"We Kill Weeds Scientifically" How?

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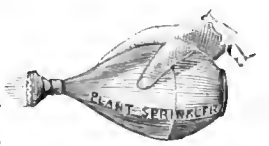
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Sprinkler...

INDISPENSABLE J. A. Scollay, Maker, 74 Myrtle Ave. Brooklyn, N. Y.



VAUGHAN'S SEED STORE, Gen'l Western Agents, 84 Randolph St., CHICAGO. Mention American Florist.

PURE BONE FLOUR. Ammonia ..... 14.00 Bone Phosphate, 0.01 PURE DRIED BLOOD. Send for prices and references. GEO. S. BARTLETT, CINCINNATI, O. SUCCESSOR TO Cin'ti Desiccating Co., 1255-1257 West Sixth Street.

THE AMERICAN FLORIST'S COLOR CHART

is now accepted as the standard in preparing color descriptions, by many foreign houses as well as in America.

PRICE 15 CENTS POSTPAID.

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**How to Grow Mushrooms.**

Procure fresh horse droppings in as large a quantity as possible, shake out the longest straw and add to the pile one-third its weight of new loam, intermixing thoroughly. The compost should be kept under cover, so as to preserve it from wetting by rains, until a sufficient quantity has been collected to make a bed of the desired size.

In making the bed spread out a layer of the material thus prepared from three to four inches deep and of the required dimensions as to length and width. Tread or tamp this layer until it is quite firm and add others in the same way until the bed is ten or twelve inches in depth.

The temperature of this compact mass of soil and droppings will in a few days rise to 100° or over, as may be ascertained on plunging a thermometer into it, and then gradually decline. On going down to the 90° mark it will be in a proper condition for spawning, and this is accomplished by making holes three inches deep and twelve to fourteen inches apart in the bed with a hard trowel, inserting therein pieces of brick spawn about two inches square and replacing the compost.

On the completion of this operation it will be found necessary to level the surface again, and the bed should also be made as firm as before spawning. About one week later apply a layer of loam one and a half inches thick to the surface, smoothing and tamping it lightly with the back of a spade.

The temperature and moisture of the mushroom house must now be given daily attention, maintaining the former at from 60° to 70° with a moist air. The bed will not need water until the mushrooms appear five or six weeks after spawning, and when they show on the surface as large as peas, a light watering should be given with water heated to about 100°.

I find the best temperature of a mushroom house to be 60°, with the air moist to a perceptible degree only. The surface of the bed should also be kept moist, applying water when necessary by means of a watering pot with fine sprinkler, or a hand syringe, using water never below 80°. Air should be admitted to the house from the top, and must always be under control at a temperature never below 15°. Upon entering or leaving, all currents of air likely to pass over the surface of the bed should be guarded against.

The dry spawn will become active fourteen days after insertion in the bed, but in cases where the bed has been allowed to get dry after the cessation of fermentation—which often happens in the absence of close attention—when two weeks have elapsed since spawning, apply water through a fine sprinkler until it penetrates the bed to a depth of two inches, with the water at 90°, at the same time increasing the house temperature 10°. Mushrooms will then appear in four or five weeks.

JOHN G. GARDNER

**PAULES, DUG:** Increased trade warrants Messrs A. C. Stubling & Son building a new greenhouse which will be devoted entirely to the growing of carnations.

**NEWBURG, N. Y.:** The Newburg Floral Company is rebuilding two of its carnation houses and will hereafter grow sunfax in them. A large new house will shortly be erected.

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**LARGE STOCK PROMPT SHIPMENT.**

ALSO MANUFACTURERS OF **Pure Linseed Oil Putty, Paints, Brushes Etc.**

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Make your contracts for next season now. We can deliver to any part of the country and Save You Money.....

72 Sudbury St., BOSTON, MASS.

**GALVANIZED STEEL WIRE PLANT STAKES** FROM \$2 PER 1000 UPWARDS

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**Standard Pots** Made by

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Good Railroad Facilities For shipping.  
Special Attention Given to Mail Orders, and Special Sizes Made to Order

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Price Lists Furnished on Application.

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If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

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ALL KINDS.

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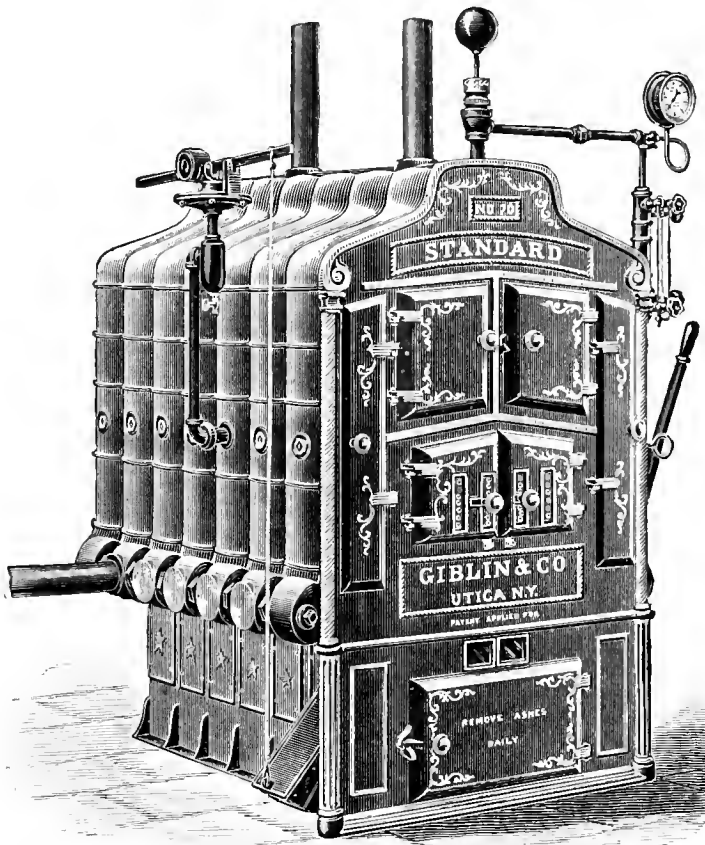
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**3,000 New Names**

American Florist Company, 324 Dearborn St., CHICAGO, ILL.





# Up-to-Date Florists

know that more is gained by preventing the increase of the outgo than by increasing the income. Wasteful methods of doing business will destroy all

## PROFIT

and prevent the commercial florist keeping up to the times and to his competitors. The expense for heating is a large one, and where a florist secures proper heat, economizes labor, economizes fuel and has no repairs, he is in a much better position to meet the demand of the times for popular prices from florists. Some boilers have the sole merit of being CHEAP and

## CAN BE

bought at a low price. One winter's use shows that while the price is low for the boiler it is high for scrap iron, which is about all such boilers are good for. Our boilers are.....

## DISTINGUISHED

for their success and we have had no failures. Every florist who has used our boilers finds all anxiety about heating entirely removed. We have sizes in steam and hot water for any demand and can name a price delivered at any station in the United States and a special price is given where we have no boilers in use.

SEND FOR OUR GREENHOUSE CATALOGUE

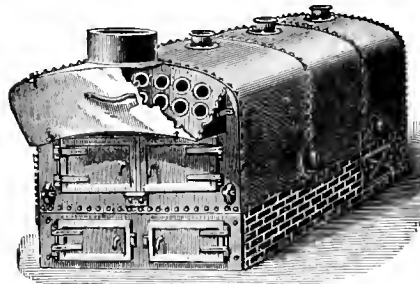
GIBLIN & CO., Utica, N. Y.

ARE YOU  **BUILDING** or... **REPAIRING?**

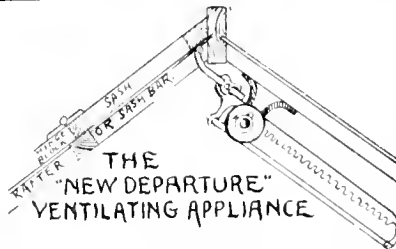
- Mastica, \$1.00 per gallon.
- Liquid Putty, 25-lb. can \$1.50, ready to use.
- Scollay Putty Bulb for applying Mastica or Liquid Putty, 85c.
- Van Ryper's Glazing Points, per 1000 60c, by mail 75c.
- Glass Cutters, steel roller, 15c each.
- Mastica Glazing Machine, \$1.00 each.

**Ellis & Pollworth,**  
Box 75... MILWAUKEE, WIS.

**KROESCHELL BROS. CO.**  
IMPROVED  
**Greenhouse \* Boiler,**  
29 to 59 Erie St., CHICAGO.



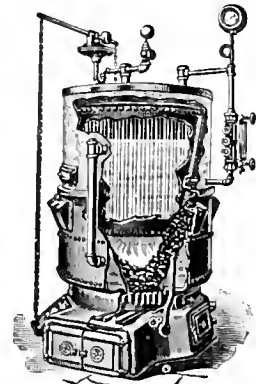
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



You can not get a **GOOD THING** for nothing. But the price of this apparatus is next to nothing. Send for price and description to **J. D. CARMODY** Evansville, Ind.

When corresponding with any advertiser on this page, please mention the fact that you saw the ad. in the AMERICAN FLORIST.

—THE—  
**GORTON SIDE FEED Boiler**



is the only boiler that will keep a steady heat in a greenhouse all night without attention. No sitting up all night to keep a good fire.

Further information on application.

**GORTON & LIDGERWOOD CO.**  
96 Liberty Street, NEW YORK.

THE EMERSON **PATENT BINDER**

Price postpaid 75 CENTS.

Address American Florist Co. CHICAGO.

Showing the appearance of the Binder when quite full of

THE American Florist.

Every subscriber should have one.

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GLASS for Greenhouses, Conservatories, Hotbeds, etc. Also Hotbed Sashes and Mats, Paints, Oils, etc. **THE REED GLASS & PAINT CO.,** 456 W. Broadway, NEW YORK.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.

**THE A. T. STEARNS LUMBER CO.,**  
Newbury, Boston, Mass.

Dayton, Ohio.

Business the past season has been noticeably better than for some years past and is holding up well for this time in the year.

A splendid conservatory is being erected upon the grounds of the National Soldiers' Home and will fill a long felt want. The grounds of this institution are now in the very best of condition and display the talents of our jovial friend, Head Gardener Charles Beck, who has many new and striking designs in carpet bedding, several of which were inspired by the patriotic war fever.

J. B. Heiss has an immense stock of palms and ferns in tiptop condition and reports his wholesale trade as increasing in all lines of decorative plants. He has a large lot of home grown azaleas in 2-inch pots, some *Araucaria excelsa* and a house of young *Adiantum Farleyense* which would be hard to excel.

H. H. Ritter and G. J. Horlacher each have large stocks so well grown that they are at all times worth a visit, and the National Plant Company is busy propagating roses by the hundred thousand.

Strange to say there seems to be little interest taken in the approaching S. A. F. convention. The boys are all busy planting, and as everything seems to be well, it is probable that Dayton will, nevertheless, be represented at Omaha.

Warren G. Matthews is sunning on the lakes. ALCIBIADES.

WASHINGTON, D. C.—Chas. Crall has closed his store and will rusticate until October when he will resume business.

**TWEMLOW'S Old English Glazing Putty**



Semi-Liquid. Used in Bulb or Machine.

FOR GLASS PANS AND LARGER PACKAGES. It is no equal probably for Greenhouse work.

**Hammond's Paint. GREENHOUSE WHITE.**

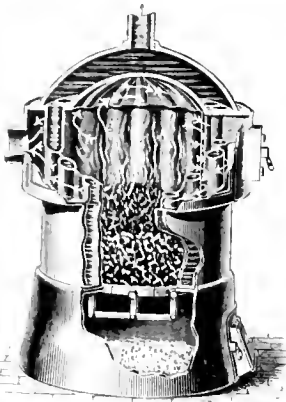
For 20 years many Florists throughout the United States have used this paint. The purest and most durable that can be made.

At prices to the craft, that will pay to use it.

EVERY GREENHOUSE MAN SHOULD TRY THIS PAINT.

BENJAMIN HAMMOND.

FISHKILL-ON-HUDSON, - NEW YORK. Mention American Florist.



"DORIC" HOT WATER HEATER. SECTIONAL VIEW



CAPACITIES FROM 400 to 2600 FT. 2-IN. PIPE.

The Best Boiler on Earth for Greenhouse Heating. ALSO MADE FOR STEAM.

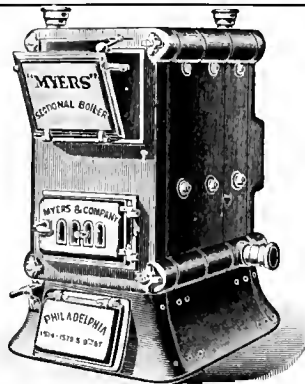
Water Section Made in One Casting. No Leaky Joints to Worry Over. Deep Fire Pot. No Need to Sit Up All Night to Keep Your Fire Going.

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**GURNEY HEATER MFG. CO.**

NEW YORK CITY BRANCH: 48 Centre St. 74 Franklin St., Cor. Arch, BOSTON, MASS.



**MYERS Improved Sectional Hot Water Boilers**

FOR HEATING GREENHOUSES, CONSERVATORIES, ETC. GIVES MOST HEAT FOR LEAST MONEY.

ROBERT CRAIC & SON, of Philadelphia, say of it: "We are wonderfully well pleased with your Myers Boiler. We recommend it to anyone desiring a strictly first-class hot water heating apparatus."

Send for Catalogue B-5 and prices to

**MYERS & CO.,** 1514 to 1520 S. Ninth St., PHILADELPHIA, PA.

**Steam and Hot Water Heating**

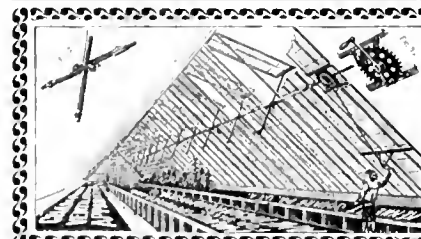
ECONOMICALLY AND PERFECTLY INSTALLED BY

**HENRY W. GIBBONS**

134, 136, 138 Liberty Street, NEW YORK, N. Y.

CATALOGUES AND ESTIMATES FREE.

EXPERT ADVICE FURNISHED.



**EASY** It's easy to use because the principle is right. A boy can operate it. It's easy to put up because of its extreme simplicity. It's easy to buy because the price is reasonable.....

**THE CHAMPION VENTILATING APPARATUS**

Catalogue is free. A postal with your name and address secures it. Address

**AMERICAN ROAD MACHINE CO.,** Kennett Square, Pa.

**GREENHOUSE MATERIAL**

Cal. Red Cedar and Louisiana Cypress.

BEST GRADES. PERFECT WORKMANSHIP.

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**EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS**

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**NEW & SECOND-HAND MATERIAL,** purchased from Sheriff, Receiver, and Assignee, sales at less than one-half prices. Pipe and Fittings, Hose, Florists' Wire, Hot Water Heaters, Greenhouse Boilers and Engines, Ropes, Light Wrought Iron Pipe, Glass Sash, and thousands of other articles, for sale by

**CHICAGO HOUSE WRECKING CO.** Largest Mail Order Depot for New and Second-Hand Material in the World.

W. 35TH & IRON STS., CHICAGO. Write for our free illustrated catalogue.

You can do more than Pay Your Rent by Advertising your Surplus Stock in The American Florist.

Providence, R. I.

Little of interest has transpired during the past week. It is too early to make predictions for the coming season, still out of door stock, carnations especially, are looking much better than they did a year ago.

The Florists' and Gardeners' Club held its monthly meeting on the evening of July 22. It was a very spirited meeting, much interest being manifested in the coming Field Day, to be held at Rocky Point on August 10. Treasurer Macrae made his semi-annual report, showing the club to be in a good financial condition, which fact demonstrates the healthy influence the conventions of the society with an extended cognomen have had upon all kindred organizations.

The commonly-called century plant on the private grounds of Robert Knight on Elmwood avenue has been the subject of much interest for a week past, and hundreds of people have watched the development of the stately flower stalk well furnished with buds. This will be the first one to bloom in Providence within the recollection of any of our oldest florists. I saw one in bloom in Newport a few years since. One sees many rare things there. By the way, would Newport not be a good place to hold the national convention at some early date?

Recent visitors: Mr. Fotheringham, representing F. R. Pierson Co., and U. G. Scollay, of Brooklyn, N. Y.

LITTLE RHODY.

Sandusky, O.

This hot weather has nearly got the better of us all, but we are still in the land of the living and able to do a little hustling. Business here is quiet, as is usual at this season, but is slightly better than last year. There is no new glass being put up here. All the stock planted out seems to be doing nicely, and the prospects indicate a supply of excellent stock for the fall and winter months. Our city parks are looking better than ever, and much credit is due F. Roth, the gardener, who is quite well up with the times.

D. R. W.



LOUISIANA Cypress Green House Material.

RED CEDAR

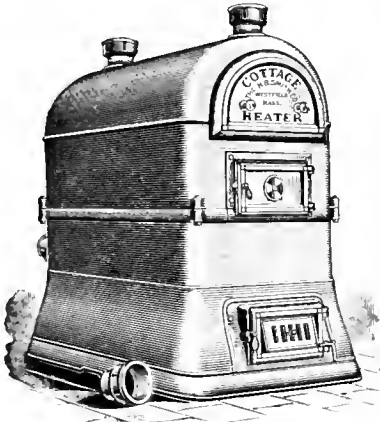
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## Clear Cypress Greenhouse Material.

This *with us* means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Write for Circulars or Estimates.

**Lockland Lumber Co.,**  
LOCKLAND, O.



**SALESROOMS:**  
133 Centre Street, - NEW YORK CITY.  
510 Arch Street, - PHILADELPHIA.

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**WESTERN AGENTS:**  
WESTERN BRASS MFG. CO.  
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For Greenhouses, Gardens and Lawns in liberal quantities, every hour of the year, whether the wind blows or not.

**Improved Rider Hot Air Pump**  
**Improved Ericsson Hot Air Pump**

Can be run by any ignorant boy without danger. Explosion impossible. Prices greatly reduced. In use in every part of the world. Send for Catalogue A 3.

**RIDER-ERICSSON ENGINE CO.**

22 Cortlandt St., NEW YORK.      86 Lake St., CHICAGO.  
239-241 Franklin St., BOSTON.      29-31 N. 7th St., PHILADELPHIA.  
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GREENHOUSE CONTRACTOR, STEAM AND HOT WATER ENGINEER

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Kuehn C A.....	1542	Yonng Thos Jr.....	1543
Kuhl Geo A.....	1540	Zirngelbel Denis.....	1542
Lauer A Hurrell.....	1545		
Lanz Julius.....	1543		

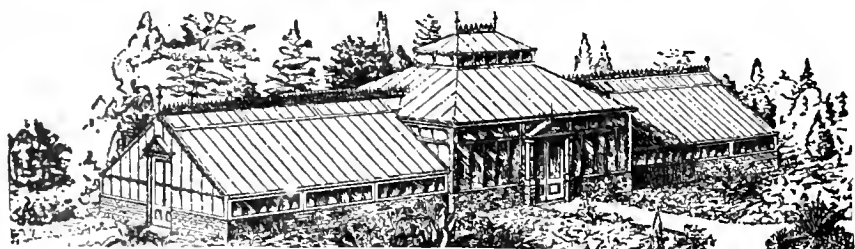
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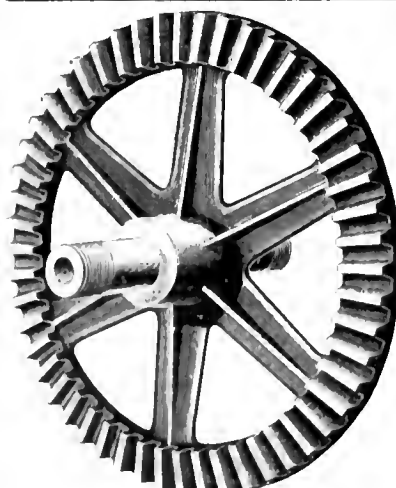
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